



July 30, 2018

Hand Delivered

Merat Zarreii/Mark Kelly – SWRP/Pretreatment
Albuquerque Bernalillo County Water Utility Authority
P.O. Box 568
Albuquerque, New Mexico 87103-0568

RE: Semi-Annual Report
Name: Intel Corporation
Permit Number: 2021A
Reporting Period: January 1, 2018 through June 30, 2018

Enclosed is Intel Corporation's Semi-Annual Report for the above stated reporting period as required in the Wastewater Discharge Permit for the facility noted above.

The following information is enclosed:

<u>Endorsement</u>	<u>Code</u>
Ammonia Loading	LOAD2
Cyanide Certification	CN
Average and Daily Effluent Flow Monitoring	FM6
Grease Traps, Sand Traps and Oil/Water Separators	GS
Hazardous Air Pollutants Certification	HAPS
Hazardous Substances and Pretreatment Wastes for Permit # 2021A	HZ3
2021A pH Monitoring	PH3
Reporting Certification	RC
Toxic Organic Management Plan Certification Statement	TC3
Special Wastestream Pollutant Limitations	INGA2
Special Wastestream Pollutant Limitations	PT
Self-Monitoring	SM
Source Reduction and Waste Minimization Statement	WM
Toxic Organic (Solvent) Management Plan	TR6
Attachments:	
A – Intel NM H1 2018 Grease Trap Pumping Manifests	
B – Intel NM TOMP – March 2018 Update	
C – Monthly Indium Gallium Sampling Reports	
D – Semi-annual Monitoring Analytical Results	
E – Site Outfall Flow Meter Calibration Records	

To clarify any information submitted, please contact Megan Rosebrough at (505) 728-5130.

Sincerely,

Mindy Koch
NM Site Corporate Services Manager

Enclosures

EHS036

Permit #: 2021A
Permittee: Intel Corporation
Address: 4100 Sara Road
City: Rio Rancho
State, Zip: NM 87124-1025

Reporting Requirements

<u>Code</u>	<u>Endorsement</u>
LOAD2	2021A AMMONIA LOADING
CN	CYANIDE CERTIFICATION
FM6	AVERAGE AND DAILY EFFLUENT FLOW MONITORING
GS	GREASE TRAPS, SAND TRAPS AND OIL/WATER SEPARATORS
HAPS	HAZARDOUS AIR POLLUTANTS CERTIFICATION
HZ3	HAZ WASTE PERMIT 2021A
PH3	PH MONITORING PERMIT 2021A
RC	REPORTING CERTIFICATION
TC3	TOMP CERTIFICATION STATEMENT
INGA2	SPECIAL WASTESTREAM POLLUTANT LIMITATIONS
PT	SPECIAL WASTESTREAM POLLUTANT LIMITATIONS
SM	SELF-MONITORING
WM	WASTE MIN. PERMIT 2021A
TR6	TOXIC ORGANIC (SOLVENT) MANAGEMENT PLAN

ENDORSEMENT LOAD2

2021A AMMONIA LOADING

COMPLIANCE REQUIREMENT: The Permittee is required to discharge less than 2,200 lbs. per day of Ammonia calculated on a monthly average. Industry sampling and Water Authority monitoring may be combined to calculate the monthly average. The Permittee is required to discharge less than 5,418 lbs. per day of Ammonia as a maximum on any one day.

MONITORING REQUIREMENT: The Permittee shall monitor the discharge on a weekly basis using Hach Method 10031, or another method approved by the Industrial Pretreatment Engineer. Monitoring by the permittee may be increased at the discretion of the Industrial Pretreatment Engineer.

REPORTING REQUIREMENT: The Permittee shall notify the Industrial Pretreatment Engineer (289-3439) via telephone within 12 hours if any Ammonia load is greater than the monthly average limit. If the Industrial Pretreatment Engineer does not answer, the shift supervisor at the SWRP control room should be notified (289-3411). The Permittee shall report on the monthly bases all Ammonia monitoring and flows. The results and flow must be sent to the Industrial Pretreatment Engineer or her designate by the 10th of the month. Twice a year the Permittee shall conduct accuracy checks per the analytical method and submit the results with each semi-annual report.

In compliance with the Endorsement Load2 reporting requirements, Intel NM submitted Ammonia reports to ABCWUA on 2/6/2018, 3/2/2018, 4/10/2018, 5/7/2018, 6/7/2018, and 7/5/2018 which included Ammonia data collected during H1 2018. A summary of Intel NM's analytical method accuracy checks performed during H1 2018 is included below.

Date	Ammonia analytical accuracy checks (10 ppm Standard)
1/10/2018	10.1
1/17/2018	9.6
1/24/2018	9.6
2/1/2018	9.9
2/7/2018	10.1
2/14/2018	9
2/22/2018	10.5
2/28/2018	9.4
3/8/2018	9.9
3/23/2018	9.1
3/28/2018	9.6
4/4/2018	9.5
4/11/2018	9.1
4/18/2018	9.1
4/25/2018	9.8
5/2/2018	10
5/9/2018	10.5
5/16/2018	9.9
5/23/2018	10.6
5/30/2018	10.4
6/6/2018	9.3
6/13/2018	9.5
6/20/2018	9.2
6/27/2018	9.2

ENDORSEMENT CN

CYANIDE CERTIFICATION

COMPLIANCE REQUIREMENT: See below.

MONITORING REQUIREMENT: None required by the Permittee.

REPORTING REQUIREMENT: The Permittee shall report either the presence or absence of Cyanide compounds on the premises during the reporting period. Example CYANIDE CERTIFICATION STATEMENTS are shown below. The Permittee shall submit the appropriate certification statement shown below with each semi-annual report submittal.

* * * *

CYANIDE CERTIFICATION STATEMENT (CYANIDE NOT PRESENT)

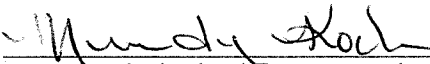
I hereby certify that no cyanide compounds are stored or used on the premises at this time and that no cyanide compounds were stored or used on the premises during the current permit reporting period. I further certify that the presence of any cyanide compound on the premises shall be reported to the Industrial Waste Engineer (873-7047) within 24 hours of receipt of the compound, regardless of the intended use or disposition of the material.

Facility Name: _____
Permit No.: _____ Date: _____
Signature: _____ Title: _____
Authorized Representative

* * * *

CYANIDE CERTIFICATION STATEMENT (CYANIDE PRESENT)

I hereby certify that cyanide compounds were stored or used on the premises during the current permit reporting period.

Facility Name: Intel Corporation
Permit No.: 2021A Date: 7/30/18
Signature:  Title: NM Corporate Services
Authorized Representative Manager

Cyanide compounds present on the NM site during this reporting period are listed below:

Chemical Ingredient	CAS
Sodium Dichloroisocyanurate	2893-78-9
Sodium Nitroferrocyanide	14402-89-2
Ethyl Cyanoacrylate	7085-85-0
Hexylecyanobiphenyl	41122-70-7

ENDORSEMENT FM6

AVERAGE AND DAILY EFFLUENT FLOW MONITORING

COMPLIANCE REQUIREMENT: The holder of this Permit must meet the requirements of 40 CFR 403.12(e)(1), and shall submit to the Pretreatment Program, along with the semi-annual report during the months of January and July, a report which shall include a record of measured or estimated average and maximum daily flows for the reporting period of the effluent from this facility. The report shall also include a copy of this endorsement, with the relevant information filled in below.

The Pretreatment Section may allow for verifiable estimates of these flows, where justified by cost or feasibility considerations.

MONITORING REQUIREMENT: Average and maximum daily flows of all regulated process streams and, as necessary, other effluent streams from the facility.

REPORTING REQUIREMENT: The Permittee shall submit information showing the measured average daily and maximum daily flow, in gallons per day (gpd) to the Pretreatment Program from each of the following:

1. Regulated process streams; and
2. Other streams as necessary to allow use of the Combined Waste Stream Formula.

The permit holder shall submit flow meter calibration documentation with the semi-annual reports.

Average Daily Flow:	<u>1,658,337</u>	gallons per day
Peak Daily Flow:	<u>2,337,717</u>	gallons per day
Peak Daily Flow occurred on:	<u>1/18/2018</u>	date

In compliance with Endorsement FM6, documentation of calibration is attached. The site outfall flow meters were calibrated on March 1st, 2018.

DAILY EFFLUENT FLOW MONITORING

Per 40 CFR 403.12(e)(1) Intel is submitting measured average and maximum flow data for regulated process streams and un-regulated streams.

January 2018

Date	Site Outfall flow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average	Unreg/Dil Flows Average
1/1/2018	1,485	475	1,002	483
1/2/2018	1,169	204	957	212
1/3/2018	1,191	128	1,054	137
1/4/2018	1,169	131	1,030	139
1/5/2018	1,150	131	1,011	139
1/6/2018	1,283	127	1,148	135
1/7/2018	1,293	265	1,020	273
1/8/2018	1,131	163	960	171
1/9/2018	1,172	128	1,036	136
1/10/2018	1,161	134	1,019	142
1/11/2018	1,163	132	1,022	141
1/12/2018	1,496	407	1,080	415
1/13/2018	1,134	200	926	208
1/14/2018	1,173	127	1,038	135
1/15/2018	1,168	132	1,027	141
1/16/2018	1,209	131	1,070	139
1/17/2018	1,366	136	1,222	145
1/18/2018	1,623	274	1,341	283
1/19/2018	1,325	172	1,145	180
1/20/2018	1,121	136	977	144
1/21/2018	1,183	136	1,039	144
1/22/2018	1,314	273	1,033	281
1/23/2018	1,327	310	1,008	318
1/24/2018	1,171	172	991	180
1/25/2018	1,145	131	1,006	140
1/26/2018	1,138	130	999	139
1/27/2018	1,305	131	1,165	139
1/28/2018	1,132	126	998	134
1/29/2018	1,345	275	1,061	284
1/30/2018	1,163	168	987	176
1/31/2018	1,066	131	927	139
	gpm	gpd		
Average	1,226	1,765,816		
Peak	1,623	2,337,717	Peak Date	1/18/2018

Intel Semi-Annual Wastewater Report | H1 2018

February 2018

Date	Site Outfall flow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average	Unreg/Dil Flows Average
2/1/2018	1,148	130	1,009	139
2/2/2018	1,268	269	990	277
2/3/2018	1,262	301	952	310
2/4/2018	1,117	164	944	172
2/5/2018	1,107	135	964	143
2/6/2018	1,151	131	1,012	139
2/7/2018	1,225	132	1,085	140
2/8/2018	1,118	136	973	144
2/9/2018	1,333	274	1,051	283
2/10/2018	1,120	169	943	177
2/11/2018	1,135	127	1,000	136
2/12/2018	1,261	135	1,118	143
2/13/2018	1,205	270	927	278
2/14/2018	1,343	304	1,031	313
2/15/2018	1,157	168	981	177
2/16/2018	1,169	130	1,031	138
2/17/2018	1,212	126	1,078	134
2/18/2018	1,307	139	1,161	147
2/19/2018	1,196	133	1,055	141
2/20/2018	1,362	274	1,079	282
2/21/2018	1,320	168	1,144	176
2/22/2018	1,221	136	1,076	145
2/23/2018	1,376	273	1,095	282
2/24/2018	1,242	169	1,065	177
2/25/2018	1,364	273	1,082	281
2/26/2018	1,434	169	1,256	177
2/27/2018	1,230	134	1,088	143
2/28/2018	1,346	142	1,196	150
	gpm	gpd		
Average	1,240	1,786,099		
Peak	1,434	2,064,264	Peak Date	2/26/2018

Intel Semi-Annual Wastewater Report | H1 2018

March 2018

Date	Site Outfall flow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average	Unreg/Dil Flows Average
3/1/2018	1,038	141	888	149
3/2/2018	1,033	132	893	140
3/3/2018	1,189	270	910	279
3/4/2018	1,047	172	867	180
3/5/2018	1,211	135	1,067	144
3/6/2018	1,135	274	853	282
3/7/2018	1,123	175	940	183
3/8/2018	1,213	272	933	280
3/9/2018	991	170	812	179
3/10/2018	1,228	141	1,079	149
3/11/2018	1,085	131	946	139
3/12/2018	1,128	142	978	150
3/13/2018	1,085	138	939	146
3/14/2018	1,233	278	947	286
3/15/2018	1,061	173	879	182
3/16/2018	1,286	272	1,006	281
3/17/2018	1,032	169	855	177
3/18/2018	1,048	133	907	141
3/19/2018	1,261	276	977	284
3/20/2018	1,111	171	932	180
3/21/2018	1,179	135	1,036	143
3/22/2018	1,041	131	901	139
3/23/2018	1,025	134	883	142
3/24/2018	1,050	138	904	146
3/25/2018	1,183	273	901	282
3/26/2018	1,071	170	893	179
3/27/2018	1,269	273	988	281
3/28/2018	1,077	170	899	178
3/29/2018	1,059	136	915	145
3/30/2018	1,198	271	919	279
3/31/2018	1,098	171	919	180
	gpm	gpd		
Average	1,122	1,615,915		
Peak	1,286	1,852,240	Peak Date	3/16/2018

Intel Semi-Annual Wastewater Report | H1 2018

April 2018

Date	Site Outfall flow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average	Unreg/Dil Flows Average
4/1/2018	1,119	136	974	145
4/2/2018	1,062	138	915	147
4/3/2018	1,012	133	871	142
4/4/2018	1,199	150	1,040	159
4/5/2018	1,317	291	1,017	300
4/6/2018	1,309	323	978	331
4/7/2018	1,180	188	983	197
4/8/2018	1,069	140	920	149
4/9/2018	1,142	143	990	151
4/10/2018	1,303	272	1,023	281
4/11/2018	1,196	176	1,012	184
4/12/2018	1,130	153	969	161
4/13/2018	1,207	150	1,049	159
4/14/2018	1,070	133	928	142
4/15/2018	1,160	268	884	277
4/16/2018	1,186	310	868	318
4/17/2018	1,028	172	847	181
4/18/2018	1,111	147	955	156
4/19/2018	1,147	151	988	159
4/20/2018	1,372	289	1,075	297
4/21/2018	1,291	180	1,103	189
4/22/2018	1,041	140	892	149
4/23/2018	1,102	146	948	154
4/24/2018	1,031	141	882	149
4/25/2018	1,165	141	1,016	149
4/26/2018	1,297	415	874	423
4/27/2018	1,054	212	833	220
4/28/2018	1,016	132	875	141
4/29/2018	1,037	135	894	143
4/30/2018	1,052	137	906	145
	gpm	gpd		
Average	1,147	1,651,406		
Peak	1,372	1,975,473	Peak Date	4/20/2018

Intel Semi-Annual Wastewater Report | H1 2018

May 2018

Date	Site Outfall flow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average	Unreg/Dil Flows Average
5/1/2018	1,390	283	1,098	292
5/2/2018	1,152	186	957	194
5/3/2018	1,191	147	1,036	155
5/4/2018	1,156	151	996	160
5/5/2018	1,117	150	959	158
5/6/2018	1,242	283	950	291
5/7/2018	1,209	322	879	330
5/8/2018	1,075	183	883	192
5/9/2018	1,086	152	926	160
5/10/2018	1,240	152	1,080	160
5/11/2018	1,137	158	971	166
5/12/2018	1,195	284	902	292
5/13/2018	1,020	176	837	184
5/14/2018	1,081	150	922	159
5/15/2018	1,214	282	923	291
5/16/2018	1,065	183	874	192
5/17/2018	1,173	279	886	287
5/18/2018	1,150	194	948	203
5/19/2018	1,007	137	863	145
5/20/2018	1,121	136	976	144
5/21/2018	958	128	821	136
5/22/2018	948	128	812	136
5/23/2018	1,124	276	839	285
5/24/2018	1,051	181	862	189
5/25/2018	1,091	147	936	155
5/26/2018	1,182	289	884	297
5/27/2018	1,018	176	834	184
5/28/2018	1,016	146	862	154
5/29/2018	1,200	282	910	290
5/30/2018	1,158	177	973	185
5/31/2018	1,041	148	884	157
	gpm	gpd		
Average	1,123	1,616,777		
Peak	1,390	2,001,138	Peak Date	5/1/2018

Intel Semi-Annual Wastewater Report | H1 2018

June 2018

Date	Site Outfall flow Average (gpm)	Acid Waste Neutralization Unregulated/Dilute Flows (gpm)	Regulated Flows Average	Unreg/Dil Flows Average
6/1/2018	999	149	841	158
6/2/2018	951	140	803	148
6/3/2018	1,140	275	857	283
6/4/2018	1,067	185	873	194
6/5/2018	1,019	149	862	157
6/6/2018	1,166	287	871	295
6/7/2018	1,064	189	867	197
6/8/2018	1,333	296	1,029	304
6/9/2018	1,008	173	827	181
6/10/2018	988	148	832	157
6/11/2018	1,002	148	846	156
6/12/2018	972	147	817	156
6/13/2018	1,085	283	794	291
6/14/2018	1,157	319	829	328
6/15/2018	982	182	791	190
6/16/2018	990	136	846	144
6/17/2018	1,010	135	867	144
6/18/2018	1,119	140	971	148
6/19/2018	1,155	278	869	286
6/20/2018	940	161	771	169
6/21/2018	1,074	123	943	131
6/22/2018	978	133	837	141
6/23/2018	945	121	816	129
6/24/2018	1,102	264	830	272
6/25/2018	1,127	300	819	308
6/26/2018	1,050	163	879	171
6/27/2018	1,000	126	866	134
6/28/2018	979	126	845	134
6/29/2018	1,205	129	1,067	138
6/30/2018	935	126	801	134
	gpm	gpd		
Average	1,051	1,514,010		
Peak	1,333	1,919,086	Peak Date	6/8/2018

ENDORSEMENT GS

GREASE TRAPS, SAND TRAPS AND OIL/WATER SEPARATORS

COMPLIANCE REQUIREMENT: Facilities with grease traps, sand traps or oil/water separators shall periodically inspect the operation of these devices and remove accumulated grease, sand, oil or grit as required to prevent discharge of such pollutants (or materials) to the sanitary sewer.

MONITORING REQUIREMENT: The Permittee shall perform periodic inspections, as required, to assure timely removal of accumulated materials.

REPORTING REQUIREMENT: The Permittee shall document in each semi-annual report the method used to dispose of materials removed from grease traps, sand traps or oil/water separators. This must include a narrative statement, along with copies of the manifest forms for each material removed from the Permittee's facility during the reporting period. If no materials are removed during the reporting period, a statement of that fact must be submitted. Sample statements are provided below.

* * * *

Intel NM's grease trap pumping manifests for H1 2018 are included as Attachment A.

GREASE, SAND, OIL OR GRIT SHIPPING CERTIFICATION STATEMENT – NO SHIPMENTS

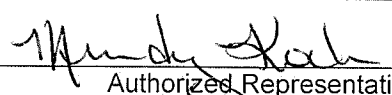
I hereby certify that the permitted facility HAS active grease traps, sand traps or oil/water separators and NO shipments of accumulated grease, oil, sand or grit have occurred during this reporting period.

Facility Name: _____
Permit No.: _____ Date: _____
Signature: _____ Title: _____
Authorized Representative

* * * *

GREASE, SAND, OIL OR GRIT SHIPPING CERTIFICATION STATEMENT - SHIPMENTS

I hereby certify that the permitted facility HAS active grease traps, sand traps or oil/water separators and shipments of accumulated grease, oil, sand or grit HAVE occurred during this reporting period. Copies of manifests are attached.

Facility Name: Intel Corporation
Permit No.: 2021A Date: 7/30/18
Signature:  Title: NM Corporate Services Manager
Authorized Representative

Grease traps are generally cleaned twice monthly. In March 2018, while coordinating the second monthly cleaning of the grease traps it came to the attention of Intel NM that the vendor's insurance had lapsed. Because of this they were unable to perform the second monthly cleaning in March. Although the grease traps were monitored in the absence of the cleaning event, the April 6th pumping manifests reflect that the accumulated FOG occupied greater than 25% of the interceptor capacity in one of five grease traps. Intel NM does not believe that FOGs passed through the grease trap because of the missed pumping event in March. During all other months of H1 2018, the grease traps were cleaned twice monthly.

In compliance with Endorsement GS, grease trap pumping manifests are attached.

ENDORSEMENT HAPS

HAZARDOUS AIR POLLUTANTS CERTIFICATION

COMPLIANCE REQUIREMENT: The Permittee shall not use the treatment and controls located at the POTW to comply with its NESHAP.

MONITORING REQUIREMENT: None required by the Permittee.

REPORTING REQUIREMENT: The Permittee shall submit the appropriate certification statement shown below with each semi-annual report submittal.

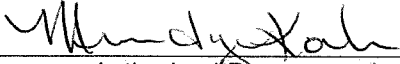
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NESHAP CERTIFICATION STATEMENT

I hereby certify that this facility does not use the treatment and controls located at the POTW to comply with its NESHAP.

Facility Name: Intel Corporation

Permit No.: 2021A Date: 7/30/18

Signature:  Title: NM Corporate Services Manager

Authorized Representative

ENDORSEMENT HZ3

HAZARDOUS SUBSTANCES AND PRETREATMENT WASTES

FOR PERMIT # 2021A

COMPLIANCE REQUIREMENT: The permittee shall insure that: 1) all pretreatment processes are handled in accordance with applicable Resource Conservation and Recovery Act (RCRA) regulations, 2) no materials removed by a pretreatment process are reintroduced into the wastestream, and, 3) hazardous substances stored on-site are not discharged to the sanitary sewer. In other words, disposal of pretreatment wastes or hazardous substances into the sanitary sewer is strictly forbidden.

MONITORING REQUIREMENTS: None required by the Permittee.

REPORTING REQUIREMENTS: The permittee shall document in each semi-annual report, the method used to dispose of materials removed by the pretreatment process and/or hazardous substances stored on-site. This must include a narrative statement, along with a summary of all hazardous materials generated from the NM site for the reporting period. All original manifests are to be maintained in the permittee's regulatory files and be available to the Water Authority upon request. If no hazardous substances or pretreatment wastes are removed during the reporting period, a statement of that fact must be submitted. Sample statements are provided.

* * * *

**HAZARDOUS SUBSTANCES AND PRETREATMENT WASTES CERTIFICATION
STATEMENT**

I hereby certify that NO shipments of hazardous substances or pretreatment wastes have occurred during this reporting period. **NOT APPLICABLE**

Facility Name: _____

Permit No.: _____ Date: _____

Signature: _____ Title: _____

Authorized Representative

US EPA ID. No. _____ (IF APPLICABLE)

Intel Semi-Annual Wastewater Report | H1 2018

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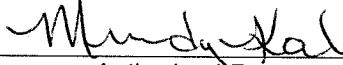
HAZARDOUS SUBSTANCES AND PRETREATMENT WASTES CERTIFICATION STATEMENT

I hereby certify that shipments of hazardous substances or pretreatment wastes HAVE occurred during this reporting period. A summary of these shipments has been included with this report.

Facility Name: Intel Corporation

Permit No.: 2021A

Date: 7/30/18

Signature: 
Authorized Representative

NM Corporate Services
Title: Manager

US EPA ID. No. NMD000609339 (IF APPLICABLE)

**HAZARDOUS SUBSTANCES AND PRETREATMENT
WASTE MANAGEMENT**

Intel Corporation utilizes Veolia Environmental Services Technical Solutions, Evoqua Water Technologies, and Clean Harbors Environmental for removal and disposal of all hazardous substances generated at the New Mexico site.

Veolia Environmental Services Technical Solutions, Evoqua Water Technologies, and Clean Harbors Environmental Services are EPA permitted Treatment Storage and Disposal Facilities (TSDFs). The addresses of the facilities are below:

Veolia Environmental Services Technical Solutions
9131 East 96th Avenue
Henderson, CO 80640
Phone Number: (303) 289-4827

Evoqua Water Technologies
2430 Rose Place
Roseville, MN 55113
Phone Number: (651) 638-1330

Clean Harbors Environmental Services
1340 West Lincoln Street
Phoenix, AZ 85007
Phone Number: (602) 258-6155

A summary report of all hazardous materials generated from the New Mexico site for the reporting period is included. All original manifests are maintained in our regulatory files and are available to the Water Authority upon request.

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)	Haz? (Y/N)
011175318FLE	1/1/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
011248219FLE	1/1/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
011249793FLE	1/1/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
BOL0084275	1/1/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
INTNM202992	1/2/18	529928	SLUDGE, CALCIUM FLUORIDE	19500	9.75	N
INTNM79132	1/2/18	529928	SLUDGE, CALCIUM FLUORIDE	19540	9.77	N
BOL0084276	1/2/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
001262068VES	1/3/18	483253	SOLVENT, GENERAL-MIXED	40000	20.00	Y
BOL0084277	1/4/18	DecantGsolve470	Decant Gensolve 470	11	0.01	N
INTNM79134	1/5/18	529928	SLUDGE, CALCIUM FLUORIDE	17340	8.67	N
011175313FLE	1/5/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
011248220FLE	1/5/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0084278	1/5/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
001262122VES	1/8/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42180	21.09	Y
011248223FLE	1/8/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0084280	1/8/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
INTNM202993	1/9/18	529928	SLUDGE, CALCIUM FLUORIDE	19900	9.95	N
011249794FLE	1/9/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
BOL0084281	1/9/18	DECANTGSOLVE470	Decant Gensolve 470	9	0.00	N
014557859JJK	1/10/18	7919597	Slurry Copper Wastewater Resin	1510	0.76	Y
BOL0084282	1/11/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
INTNM79136	1/12/18	529928	SLUDGE, CALCIUM FLUORIDE	21980	10.99	N
010559720FLE	1/12/18	Dec CLK-222	Decant Drum CLK-222,corrosive	18	0.01	Y
011248224FLE	1/12/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0084283	1/12/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
011248225FLE	1/15/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0084284	1/15/18	DecantGsolve470	Decant Gensolve 470	22	0.01	N
001262123VES	1/16/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41980	20.99	Y
INTNM202994	1/16/18	529928	SLUDGE, CALCIUM FLUORIDE	19980	9.99	N
011000795FLE	1/16/18	DecanCMPCleanBG	Decant Drum CMP Cleaner BG1	10	0.01	Y
BOL0084322	1/16/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
BOL0084323	1/17/18	DECANTGSOLVE470	Decant Gensolve 470	9	0.00	N
INTNM79137	1/19/18	529928	SLUDGE, CALCIUM FLUORIDE	20340	10.17	N
BOL0084324	1/19/18	DecantGsolve470	Decant Gensolve 470	22	0.01	N

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001262125VES	1/22/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41140	20.57	Y
INTNM202995	1/22/18	529928	SLUDGE, CALCIUM FLUORIDE	20040	10.02	N
011248226FLE	1/22/18	DECANT PBR-40	Decant Drum PBR 40	22	0.01	Y
BOL0084325	1/22/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
011175319FLE	1/22/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
BOL0084327	1/23/18	DECANTGSOLVE470	Decant Gensolve 470	9	0.00	N
011249795FLE	1/23/18	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
BOL0084328	1/24/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
011248251FLE	1/25/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
INTNM79138	1/26/18	529928	SLUDGE, CALCIUM FLUORIDE	18420	9.21	N
011248227FLE	1/26/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0084329	1/26/18	DecantGsolve470	Decant Gensolve 470	11	0.01	N
BOL0084330	1/29/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
INTNM202996	1/30/18	529928	SLUDGE, CALCIUM FLUORIDE	20100	10.05	N
BOL0084331	1/30/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
001262127VES	1/31/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41660	20.83	Y
011248229FLE	2/1/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
011248252FLE	2/1/18	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
BOL0084332	2/1/18	DECANTGSOLVE470	Decant Gensolve 470	9	0.00	N
INTNM79139	2/2/18	529928	SLUDGE, CALCIUM FLUORIDE	18100	9.05	N
011248231FLE	2/2/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
011249796FLE	2/2/18	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
BOL0112659	2/2/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00109038	2/5/18	529928	SLUDGE, CALCIUM FLUORIDE	16360	8.18	N
BOL0112660	2/5/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
BOL0112662	2/6/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
011720929FLE	2/7/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0112663	2/7/18	DECANTGSOLVE470	Decant Gensolve 470	9	0.00	N
014557860JJK	2/7/18	7919597	Slurry Copper Wastewater Resin	1554	0.78	Y
001262128VES	2/8/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	40880	20.44	Y
ZZ00109047	2/8/18	529928	SLUDGE, CALCIUM FLUORIDE	15680	7.84	N
BOL0112664	2/8/18	DecantGsolve470	Decant Gensolve 470	11	0.01	N
ZZ00109037	2/10/18	529928	SLUDGE, CALCIUM FLUORIDE	15480	7.74	N
011720930FLE	2/12/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)	Haz? (Y/N)
BOL0112665	2/12/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
001262069VES	2/13/18	483253	SOLVENT, GENERAL-MIXED	37120	18.56	Y
ZZ00109048	2/13/18	529928	SLUDGE, CALCIUM FLUORIDE	15520	7.76	N
011249797FLE	2/13/18	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
BOL0112666	2/13/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
BOL0112667	2/14/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00109045	2/15/18	529928	SLUDGE, CALCIUM FLUORIDE	12680	6.34	N
011248253FLE	2/16/18	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
011720931FLE	2/16/18	Decant PBR-40	Decant Drum PBR 40	21	0.01	Y
BOL0112668	2/16/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00109062	2/18/18	529928	SLUDGE, CALCIUM FLUORIDE	15680	7.84	N
BOL0112669	2/19/18	DECANTGSOLVE470	Decant Gensolve 470	20	0.01	N
001262129VES	2/20/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	40740	20.37	Y
011248254FLE	2/20/18	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
BOL0112670	2/20/18	DecantGsolve470	Decant Gensolve 470	11	0.01	N
ZZ00109061	2/21/18	529928	SLUDGE, CALCIUM FLUORIDE	14720	7.36	N
014557861JJK	2/21/18	7919597	Slurry Copper Wastewater Resin	3171	1.59	Y
011249799FLE	2/22/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
BOL0112671	2/22/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
011720932FLE	2/23/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0112672	2/23/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00109060	2/24/18	529928	SLUDGE, CALCIUM FLUORIDE	14300	7.15	N
001262130VES	2/26/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	35940	17.97	Y
ZZ00109057	2/26/18	529928	SLUDGE, CALCIUM FLUORIDE	15640	7.82	N
011720933FLE	2/26/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0112673	2/26/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
BOL0112674	2/27/18	DecantGsolve470	Decant Gensolve 470	11	0.01	N
BOL0112675	2/28/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
001262146VES	3/1/18	442983	REPEATING LABPACK	13	0.01	Y
001262146VES	3/1/18	442983	REPEATING LABPACK	70	0.04	Y
001262146VES	3/1/18	533335	DEBRIS, SOLVENT-HAZARDOUS	75	0.04	Y
001262146VES	3/1/18	533335	DEBRIS, SOLVENT-HAZARDOUS	145	0.07	Y
001262146VES	3/1/18	533335	DEBRIS, SOLVENT-HAZARDOUS	119	0.06	Y
001262146VES	3/1/18	442914	ARSENIC CONTAMINATED SLURRY MATERIAL	253	0.13	Y

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001262146VES	3/1/18	442914	ARSENIC CONTAMINATED SLURRY MATERIAL	363	0.18	Y
001262146VES	3/1/18	442914	ARSENIC CONTAMINATED SLURRY MATERIAL	279	0.14	Y
001262146VES	3/1/18	713453	HMDS DEBRIS	65	0.03	Y
001262146VES	3/1/18	202100	IPA CONTAMINATED WIPES	481	0.24	Y
001262146VES	3/1/18	202100	IPA CONTAMINATED WIPES	538	0.27	Y
001262146VES	3/1/18	202100	IPA CONTAMINATED WIPES	491	0.25	Y
001262146VES	3/1/18	202100	IPA CONTAMINATED WIPES	363	0.18	Y
001262146VES	3/1/18	202100	IPA CONTAMINATED WIPES	310	0.16	Y
001262146VES	3/1/18	442923	BROKEN MERCURY LIGHT BULBS	13	0.01	Y
001262146VES	3/1/18	442913	DEBRIS, ARSENIC	97	0.05	Y
001262146VES	3/1/18	442913	DEBRIS, ARSENIC	268	0.13	Y
001262146VES	3/1/18	442913	DEBRIS, ARSENIC	135	0.07	Y
001262146VES	3/1/18	442913	DEBRIS, ARSENIC	125	0.06	Y
001262146VES	3/1/18	442913	DEBRIS, ARSENIC	145	0.07	Y
001262146VES	3/1/18	442913	DEBRIS, ARSENIC	75	0.04	Y
001262146VES	3/1/18	442913	DEBRIS, ARSENIC	114	0.06	Y
001262146VES	3/1/18	442913	DEBRIS, ARSENIC	474	0.24	Y
001262146VES	3/1/18	442913	DEBRIS, ARSENIC	150	0.08	Y
001262146VES	3/1/18	442913	DEBRIS, ARSENIC	104	0.05	Y
001262146VES	3/1/18	442913	DEBRIS, ARSENIC	110	0.06	Y
001262146VES	3/1/18	366524	AEROSOL CANS	19	0.01	Y
001262146VES	3/1/18	693403	SOLVENTS, SPIN ON GLASS	133	0.07	Y
001262146VES	3/1/18	399773	SOLVENTS, HMDS	36	0.02	Y
001262146VES	3/1/18	399773	SOLVENTS, HMDS	32	0.02	Y
001262146VES	3/1/18	691900	DEBRIS, HOUSE VACUUM	71	0.04	Y
001262146VES	3/1/18	692557	CYLINDERS, COMPRESSED GASES	24	0.01	Y
001262146VES	3/1/18	692557	CYLINDERS, COMPRESSED GASES	4	0.00	Y
001262146VES	3/1/18	692557	CYLINDERS, COMPRESSED GASES	16	0.01	Y
001262146VES	3/1/18	692557	CYLINDERS, COMPRESSED GASES	22	0.01	Y
001262146VES	3/1/18	692557	CYLINDERS, COMPRESSED GASES	17	0.01	Y
001262146VES	3/1/18	399825	EDT PARTS	142	0.07	Y
001262146VES	3/1/18	399825	EDT PARTS	172	0.09	Y
001262146VES	3/1/18	188275	AMMONIUM FLUORIDE LIQUID WASTE	2290	1.15	Y
001262146VES	3/1/18	61641	LEAD-ACID BATTERIES (DAMAGED)	44	0.02	Y

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)	Haz? (Y/N)
ZZ00109148	3/1/18	442912	LAMPS, MERCURY	147	0.07	N
ZZ00109148	3/1/18	442912	LAMPS, MERCURY	154	0.08	N
ZZ00109148	3/1/18	442983	REPEATING LABPACK	12	0.01	N
ZZ00109148	3/1/18	442983	REPEATING LABPACK	9	0.00	N
ZZ00109148	3/1/18	442983	REPEATING LABPACK	60	0.03	N
ZZ00109148	3/1/18	532530	USED OIL	453	0.23	N
ZZ00109148	3/1/18	532530	USED OIL	178	0.09	N
ZZ00109148	3/1/18	532530	USED OIL	436	0.22	N
ZZ00109058	3/1/18	529928	SLUDGE, CALCIUM FLUORIDE	15040	7.52	N
ZZ00109148	3/1/18	532531	DEBRIS, SOLVENT - NON HAZARDOUS	117	0.06	N
ZZ00109148	3/1/18	532531	DEBRIS, SOLVENT - NON HAZARDOUS	97	0.05	N
ZZ00109148	3/1/18	532526	SLUDGE, ION EXCHANGE	418	0.21	N
ZZ00109148	3/1/18	713449	DEBRIS, INDIUM PHOSPHIDE	93	0.05	N
ZZ00109148	3/1/18	713449	DEBRIS, INDIUM PHOSPHIDE	115	0.06	N
ZZ00109148	3/1/18	713444	MIXED BATTERIES (UNIVERSAL-WASTE BAT)	463	0.23	N
ZZ00109148	3/1/18	592227	USED OIL, FLUOROCARBONS, PERFLUORINATED	631	0.32	N
011248255FLE	3/1/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
010746503FLE	3/1/18	103124	Waste Medicine	16	0.01	Y
011720934FLE	3/2/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0112676	3/2/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00109059	3/4/18	529928	SLUDGE, CALCIUM FLUORIDE	15020	7.51	N
010559721FLE	3/5/18	Dec CLK-222	Decant Drum CLK-222,corrosive	10	0.01	Y
011000794FLE	3/5/18	DecanCMPCleanBG	Decant Drum CMP Cleaner BG1	10	0.01	Y
011720935FLE	3/5/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0112677	3/5/18	DECANTGSOLVE470	Decant Gensolve 470	20	0.01	N
011248265FLE	3/6/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
BOL0112678	3/6/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00109063	3/7/18	529928	SLUDGE, CALCIUM FLUORIDE	17460	8.73	N
BOL0112839	3/7/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
001262131VES	3/8/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41080	20.54	Y
BOL0112840	3/9/18	DecantGsolve470	Decant Gensolve 470	11	0.01	N
ZZ00101119	3/11/18	529928	SLUDGE, CALCIUM FLUORIDE	17300	8.65	N
011248256FLE	3/12/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
011720936FLE	3/12/18	Decant PBR-40	Decant Drum PBR 40	22	0.01	Y

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BOL0112842	3/12/18	DECANTGSOLVE470	Decant Gensolve 470	30	0.02	N
ZZ00109073	3/14/18	529928	SLUDGE, CALCIUM FLUORIDE	17440	8.72	N
BOL0112844	3/14/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
001262132VES	3/15/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	36820	18.41	Y
011248266FLE	3/15/18	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
BOL0112845	3/15/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00109074	3/17/18	529928	SLUDGE, CALCIUM FLUORIDE	16000	8.00	N
011720937FLE	3/19/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0112846	3/19/18	DECANTGSOLVE470	Decant Gensolve 470	33	0.02	N
ZZ00109066	3/20/18	529928	SLUDGE, CALCIUM FLUORIDE	14040	7.02	N
011720938FLE	3/20/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
011248257FLE	3/21/18	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
BOL0112849	3/21/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
016742751JJK	3/21/18	7919597	Slurry Copper Wastewater Resin	1632	0.82	Y
BOL0112850	3/22/18	DECANTGSOLVE470	Decant Gensolve 470	9	0.00	N
ZZ00101120	3/23/18	529928	SLUDGE, CALCIUM FLUORIDE	14580	7.29	N
001262171VES	3/26/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41320	20.66	Y
ZZ00109067	3/26/18	529928	SLUDGE, CALCIUM FLUORIDE	15080	7.54	N
011720940FLE	3/26/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0112863	3/26/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
011248267FLE	3/27/18	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
011720941FLE	3/27/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0112864	3/27/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
BOL0112865	3/28/18	DECANTGSOLVE470	Decant Gensolve 470	9	0.00	N
001262070VES	3/29/18	483253	SOLVENT, GENERAL-MIXED	39440	19.72	Y
BOL0112866	3/29/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00109068	3/30/18	529928	SLUDGE, CALCIUM FLUORIDE	17660	8.83	N
001262172VES	4/2/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	40920	20.46	Y
ZZ00109069	4/2/18	529928	SLUDGE, CALCIUM FLUORIDE	15140	7.57	N
011720942FLE	4/2/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0112867	4/2/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
BOL0112868	4/3/18	DECANTGSOLVE470	Decant Gensolve 470	20	0.01	N
011720943FLE	4/4/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
ZZ00109070	4/5/18	529928	SLUDGE, CALCIUM FLUORIDE	16060	8.03	N
BOL0112869	4/5/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N

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016742752JJK	4/4/18	7919597	Slurry Copper Wastewater Resin	1461	0.73	Y
011248268FLE	4/6/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
011704510FLE	4/6/18	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
ZZ00109071	4/8/18	529928	SLUDGE, CALCIUM FLUORIDE	15700	7.85	N
001262214VES	4/9/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	33940	16.97	Y
011704512FLE	4/9/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
011720944FLE	4/9/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0112870	4/9/18	DecantGsolve470	Decant Gensolve 470	33	0.02	N
BOL0112871	4/10/18	DECANTGSOLVE470	Decant Gensolve 470	9	0.00	N
ZZ00107369	4/11/18	529928	SLUDGE, CALCIUM FLUORIDE	14160	7.08	N
BOL0112872	4/11/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
011704521FLE	4/13/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0112873	4/13/18	DecantGsolve470	Decant Gensolve 470	11	0.01	N
ZZ00107370	4/14/18	529928	SLUDGE, CALCIUM FLUORIDE	15680	7.84	N
BOL0112874	4/16/18	DECANTGSOLVE470	Decant Gensolve 470	30	0.02	N
ZZ00109072	4/17/18	529928	SLUDGE, CALCIUM FLUORIDE	14360	7.18	N
011248269FLE	4/17/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
011704522FLE	4/17/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0044055	4/17/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
011704523FLE	4/18/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0044056	4/18/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
001262215VES	4/19/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	37300	18.65	Y
ZZ00107371	4/19/18	529928	SLUDGE, CALCIUM FLUORIDE	15520	7.76	N
011704513FLE	4/20/18	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
BOL0044057	4/20/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00107375	4/23/18	529928	SLUDGE, CALCIUM FLUORIDE	16060	8.03	N
011000793FLE	4/23/18	DECANCMPCLEANBG	Decant Drum CMP Cleaner BG1	10	0.01	Y
BOL0044058	4/23/18	DECANTGSOLVE470	Decant Gensolve 470	33	0.02	N
011704524FLE	4/24/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0044059	4/24/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00107376	4/25/18	529928	SLUDGE, CALCIUM FLUORIDE	14460	7.23	N
BOL0044060	4/25/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
BOL0044061	4/26/18	DecantGsolve470	Decant Gensolve 470	11	0.01	N
ZZ00107372	4/27/18	529928	SLUDGE, CALCIUM FLUORIDE	14700	7.35	N

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)	Haz? (Y/N)
011248270FLE	4/27/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
011704525FLE	4/27/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0044062	4/27/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
001262216VES	4/30/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41940	20.97	Y
ZZ00107377	4/30/18	529928	SLUDGE, CALCIUM FLUORIDE	14120	7.06	N
BOL0044063	4/30/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
010559723FLE	5/1/18	Dec CLK-222	Decant Drum CLK-222,corrosive	10	0.01	Y
011704526FLE	5/1/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0044064	5/1/18	DECANTGSOLVE470	Decant Gensolve 470	9	0.00	N
011704514FLE	5/2/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
BOL0044065	5/2/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
016742753JJK	5/2/18	7919597	Slurry Copper Wastewater Resin	1652	0.83	Y
001186235VES	5/3/18	483253	SOLVENT, GENERAL-MIXED	34380	17.19	Y
ZZ00107378	5/3/18	529928	SLUDGE, CALCIUM FLUORIDE	14600	7.30	N
BOL0044066	5/3/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
001262217VES	5/7/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42000	21.00	Y
ZZ00107379	5/7/18	529928	SLUDGE, CALCIUM FLUORIDE	14220	7.11	N
011248271FLE	5/7/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
011704527FLE	5/7/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0044071	5/7/18	DECANTGSOLVE470	Decant Gensolve 470	33	0.02	N
ZZ00107373	5/8/18	529928	SLUDGE, CALCIUM FLUORIDE	14680	7.34	N
011704528FLE	5/8/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0044072	5/8/18	DecantGsolve470	Decant Gensolve 470	22	0.01	N
ZZ00107374	5/10/18	529928	SLUDGE, CALCIUM FLUORIDE	13740	6.87	N
BOL0044073	5/10/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
001262218VES	5/14/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42280	21.14	Y
ZZ00107380	5/14/18	529928	SLUDGE, CALCIUM FLUORIDE	15340	7.67	N
011704515FLE	5/14/18	Decant PGMEA-PM	Decant Drum PGMEA - PM Acetate	20	0.01	Y
011704529FLE	5/14/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0044074	5/14/18	DECANTGSOLVE470	Decant Gensolve 470	33	0.02	N
ZZ00109119	5/15/18	529928	SLUDGE, CALCIUM FLUORIDE	14640	7.32	N
BOL0044075	5/15/18	DecantGsolve470	Decant Gensolve 470	11	0.01	N
011704530FLE	5/16/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0044076	5/16/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)	Haz? (Y/N)
016742754JJK	5/16/18	7919597	Slurry Copper Wastewater Resin	1448	0.72	Y
ZZ00109120	5/17/18	529928	SLUDGE, CALCIUM FLUORIDE	16220	8.11	N
011704499FLE	5/17/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
BOL0044077	5/17/18	DecantGsolve470	Decant Gensolve 470	9	0.00	N
BOL0044078	5/18/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00107381	5/21/18	529928	SLUDGE, CALCIUM FLUORIDE	14900	7.45	N
011205160FLE	5/21/18	Decant PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0044079	5/21/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
001262219VES	5/22/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41940	20.97	Y
BOL0044080	5/22/18	DecantGsolve470	Decant Gensolve 470	22	0.01	N
ZZ00107382	5/23/18	529928	SLUDGE, CALCIUM FLUORIDE	15320	7.66	N
011704516FLE	5/23/18	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	8	0.00	Y
001262312VES	5/24/18	442983	REPEATING LABPACK	108	0.05	Y
001262312VES	5/24/18	442983	REPEATING LABPACK	103	0.05	Y
001262312VES	5/24/18	442983	REPEATING LABPACK	10	0.01	Y
001262312VES	5/24/18	533335	DEBRIS, SOLVENT-HAZARDOUS	129	0.06	Y
001262312VES	5/24/18	533335	DEBRIS, SOLVENT-HAZARDOUS	148	0.07	Y
001262312VES	5/24/18	713453	HMDS DEBRIS	66	0.03	Y
001262312VES	5/24/18	713455	AEROSOLS - FOOD SERVICE	5	0.00	Y
001262312VES	5/24/18	202100	IPA CONTAMINATED WIPES	537	0.27	Y
001262312VES	5/24/18	202100	IPA CONTAMINATED WIPES	504	0.25	Y
001262312VES	5/24/18	202100	IPA CONTAMINATED WIPES	474	0.24	Y
001262312VES	5/24/18	202100	IPA CONTAMINATED WIPES	347	0.17	Y
001262312VES	5/24/18	442923	BROKEN MERCURY LIGHT BULBS	4	0.00	Y
001262312VES	5/24/18	442913	DEBRIS, ARSENIC	152	0.08	Y
001262312VES	5/24/18	442913	DEBRIS, ARSENIC	127	0.06	Y
001262312VES	5/24/18	442913	DEBRIS, ARSENIC	142	0.07	Y
001262312VES	5/24/18	442913	DEBRIS, ARSENIC	134	0.07	Y
001262312VES	5/24/18	442913	DEBRIS, ARSENIC	141	0.07	Y
001262312VES	5/24/18	442913	DEBRIS, ARSENIC	276	0.14	Y
001262312VES	5/24/18	442913	DEBRIS, ARSENIC	140	0.07	Y
001262312VES	5/24/18	442913	DEBRIS, ARSENIC	167	0.08	Y
001262312VES	5/24/18	366524	AEROSOL CANS	42	0.02	Y
001262312VES	5/24/18	611853	AEROSOL OVEN CLEANER	4	0.00	Y
001262312VES	5/24/18	693403	SOLVENTS, SPIN ON GLASS	147	0.07	Y
001262312VES	5/24/18	399773	SOLVENTS, HMDS	33	0.02	Y
001262312VES	5/24/18	691900	DEBRIS, HOUSE VACUUM	65	0.03	Y
001262312VES	5/24/18	691900	DEBRIS, HOUSE VACUUM	339	0.17	Y

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001262312VES	5/24/18	692557	CYLINDERS, COMPRESSED GASES	24	0.01	Y
001262312VES	5/24/18	229009	DEBRIS - PEROXIDE TANK CLEANING (D001)	85	0.04	Y
001262312VES	5/24/18	229009	DEBRIS - PEROXIDE TANK CLEANING (D001)	100	0.05	Y
001262312VES	5/24/18	399825	EDT PARTS	177	0.09	Y
001262312VES	5/24/18	399825	EDT PARTS	179	0.09	Y
001262312VES	5/24/18	399825	EDT PARTS	186	0.09	Y
001262312VES	5/24/18	399825	EDT PARTS	165	0.08	Y
ZZ00109153	5/24/18	442912	LAMPS, MERCURY	344	0.17	N
ZZ00109153	5/24/18	442912	LAMPS, MERCURY	160	0.08	N
ZZ00109153	5/24/18	442912	LAMPS, MERCURY	49	0.02	N
ZZ00109153	5/24/18	442912	LAMPS, MERCURY	103	0.05	N
ZZ00109153	5/24/18	442912	LAMPS, MERCURY	47	0.02	N
ZZ00109153	5/24/18	442912	LAMPS, MERCURY	131	0.07	N
ZZ00109153	5/24/18	442983	REPEATING LABPACK	136	0.07	N
ZZ00109153	5/24/18	442983	REPEATING LABPACK	151	0.08	N
ZZ00109153	5/24/18	532530	USED OIL	442	0.22	N
ZZ00109153	5/24/18	532530	USED OIL	433	0.22	N
ZZ00109153	5/24/18	532530	USED OIL	369	0.18	N
ZZ00109153	5/24/18	532530	USED OIL	439	0.22	N
001262312VES	5/24/18	974188	INERT GAS PURIFYING CYLINDER	41	0.02	N
001262312VES	5/24/18	974188	INERT GAS PURIFYING CYLINDER	42	0.02	N
ZZ00109153	5/24/18	442694	BATTERIES, LEAD ACID - NON SPILLABLE	2585	1.29	N
ZZ00109153	5/24/18	532531	DEBRIS, SOLVENT - NON HAZARDOUS	120	0.06	N
ZZ00109153	5/24/18	532526	SLUDGE, ION EXCHANGE	392	0.20	N
ZZ00109153	5/24/18	532534	BATTERIES, NI/CD-UNIVERSAL WASTE	50	0.03	N
ZZ00109153	5/24/18	532647	SOILS, PETROLEUM	302	0.15	N
ZZ00109153	5/24/18	713449	DEBRIS, INDIUM PHOSPHIDE	87	0.04	N
ZZ00109153	5/24/18	713449	DEBRIS, INDIUM PHOSPHIDE	79	0.04	N
ZZ00109153	5/24/18	713444	MIXED BATTERIES (UNIVERSAL-WASTE BAT)	423	0.21	N
ZZ00109153	5/24/18	591583	SLUDGE, GAS PURIFIER COLUMN (GETTER)	261	0.13	N
011704500FLE	5/25/18	Decant KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
BOL0044081	5/25/18	DECANTGSOLVE470	Decant Gensolve 470	9	0.00	N
ZZ00109124	5/26/18	529928	SLUDGE, CALCIUM FLUORIDE	16900	8.45	N

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)	Haz? (Y/N)
011205161FLE	5/28/18	DECANT PBR-40	Decant Drum PBR 40	21	0.01	Y
011704517FLE	5/28/18	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	11	0.01	Y
BOL0044082	5/28/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
ZZ00107383	5/29/18	529928	SLUDGE, CALCIUM FLUORIDE	15780	7.89	N
BOL0044083	5/29/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
75422	5/30/18	699552	Spent Resin	1195	0.60	N
001262220VES	5/31/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41920	20.96	Y
ZZ00107384	5/31/18	529928	SLUDGE, CALCIUM FLUORIDE	15420	7.71	N
011205162FLE	5/31/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0044088	5/31/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
BOL0044089	6/1/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00107385	6/4/18	529928	SLUDGE, CALCIUM FLUORIDE	15360	7.68	N
011704518FLE	6/4/18	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	11	0.01	Y
BOL0044090	6/4/18	DECANTGSOLVE470	Decant Gensolve 470	33	0.02	N
ZZ00109125	6/5/18	529928	SLUDGE, CALCIUM FLUORIDE	15860	7.93	N
011205073FLE	6/5/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
011704501FLE	6/5/18	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
BOL0044091	6/6/18	DECANTGSOLVE470	Decant Gensolve 470	21	0.01	N
001186236VES	6/7/18	483253	SOLVENT, GENERAL-MIXED	32700	16.35	Y
011000792FLE	6/7/18	DECANCMPCLEANBG	Decant Drum CMP Cleaner BG1	10	0.01	Y
ZZ00109126	6/8/18	529928	SLUDGE, CALCIUM FLUORIDE	15960	7.98	N
011205075FLE	6/8/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0044092	6/8/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
001262221VES	6/11/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42120	21.06	Y
ZZ00109127	6/11/18	529928	SLUDGE, CALCIUM FLUORIDE	15440	7.72	N
011205076FLE	6/11/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0044093	6/11/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
BOL0044094	6/12/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
BOL0044095	6/13/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
001262222VES	6/14/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	41640	20.82	Y
ZZ00107386	6/14/18	529928	SLUDGE, CALCIUM FLUORIDE	15040	7.52	N
011205077FLE	6/15/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0044103	6/15/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
ZZ00109075	6/18/18	529928	SLUDGE, CALCIUM FLUORIDE	15600	7.80	N
011205078FLE	6/18/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y

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Shipping Doc. Number	Ship Date	Profile Number	Waste Name	Quantity (lbs)	Quantity (tons)	Haz? (Y/N)
011704502FLE	6/18/18	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
011704519FLE	6/18/18	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	10	0.01	Y
BOL0044104	6/18/18	DECANTGSOLVE470	Decant Gensolve 470	20	0.01	N
ZZ00109077	6/19/18	529928	SLUDGE, CALCIUM FLUORIDE	15500	7.75	N
010559725FLE	6/19/18	DEC CLK-222	Decant Drum CLK-222,corrosive	10	0.01	Y
BOL0044105	6/19/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
011205079FLE	6/20/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
011704520FLE	6/20/18	DECANT PGMEA-PM	Decant Drum PGMEA - PM Acetate	13	0.01	Y
BOL0044106	6/21/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
ZZ00109078	6/22/18	529928	SLUDGE, CALCIUM FLUORIDE	15300	7.65	N
001262223VES	6/25/18	692208	SOLVENT, CORROSIVE - FAB 11 (D002)	42300	21.15	Y
ZZ00109076	6/25/18	529928	SLUDGE, CALCIUM FLUORIDE	15720	7.86	N
011205080FLE	6/25/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
BOL0044107	6/25/18	DECANTGSOLVE470	Decant Gensolve 470	33	0.02	N
011704503FLE	6/26/18	DECANT KOH 10%	Decant Drum Potassium Hydroxide 10%	12	0.01	Y
BOL0044109	6/26/18	DECANTGSOLVE470	Decant Gensolve 470	11	0.01	N
ZZ00109081	6/27/18	529928	SLUDGE, CALCIUM FLUORIDE	15480	7.74	N
011210729FLE	6/27/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y
016742755JJK	6/27/18	7919597	Slurry Copper Wastewater Resin	1492	0.75	Y
016742755JJK	6/27/18	7919597	Slurry Copper Wastewater Resin	1468	0.73	Y
BOL0044113	6/28/18	DECANTGSOLVE470	Decant Gensolve 470	22	0.01	N
ZZ00109080	6/29/18	529928	SLUDGE, CALCIUM FLUORIDE	16280	8.14	N
011211165FLE	6/29/18	DECANT PBR-40	Decant Drum PBR 40	11	0.01	Y

ENDORSEMENT PH3

2021A pH MONITORING

COMPLIANCE REQUIREMENT: The Permittee is required to maintain a system to monitor the pH of the effluent from each acid waste neutralization unit continuously. This monitoring is required for information purposes only. The Permittee is required to maintain a system to monitor the pH of the effluent from the site outfall continuously. Compliance with the pH limit this permit will be determined at the designated sampling point at the site outfall.

MONITORING REQUIREMENT: See above.

REPORTING REQUIREMENT: The Permittee shall notify the Industrial Waste Engineer within 24 hours of becoming aware of a pH excursion at the Site Vault lasting more than 60 minutes including circumstances and corrective action taken.

The Permittee shall include with each semi-annual report, the results of pH monitoring conducted at the permit sample point during the reporting period. Results reported must include:

- 1) Daily maximum and time of occurrence.
- 2) Daily minimum and time of occurrence.
- 3) Duration in minutes of each individual excursion above or below limits set in this permit. Limits are those stated in the Ordinance unless otherwise noted.

As noted in 40 CFR 401.17

- 1) The total time during which the pH values are outside the required range of pH values shall not exceed seven (7) hours and 26 minutes in any calendar month.
- 2) No individual excursion from the range of pH values shall exceed 60 minutes.

CONTINUOUS pH MONITORING REPORT

January 2018 – February 2018

Site Outfall Daily Minimum and Maximum pH Report									
Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (min)	Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (min)
1/1/2018	6.12	0.00	9.68	0.00	2/1/2018	6.29	0.00	10.08	0.00
1/2/2018	6.47	0.00	10.09	0.00	2/2/2018	5.92	0.00	9.78	0.00
1/3/2018	6.46	0.00	9.70	0.00	2/3/2018	6.05	0.00	10.15	0.00
1/4/2018	6.13	0.00	10.13	0.00	2/4/2018	6.45	0.00	10.24	0.00
1/5/2018	6.14	0.00	9.70	0.00	2/5/2018	6.65	0.00	9.64	0.00
1/6/2018	6.10	0.00	9.87	0.00	2/6/2018	6.02	0.00	9.76	0.00
1/7/2018	6.07	0.00	9.66	0.00	2/7/2018	6.10	0.00	9.83	0.00
1/8/2018	6.47	0.00	9.89	0.00	2/8/2018	6.61	0.00	9.88	0.00
1/9/2018	6.31	0.00	10.30	0.00	2/9/2018	6.03	0.00	10.23	0.00
1/10/2018	6.54	0.00	9.89	0.00	2/10/2018	6.32	0.00	10.22	0.00
1/11/2018	6.33	0.00	10.10	0.00	2/11/2018	6.35	0.00	10.06	0.00
1/12/2018	6.10	0.00	9.13	0.00	2/12/2018	5.89	0.00	9.96	0.00
1/13/2018	6.00	0.00	9.90	0.00	2/13/2018	5.97	0.00	10.14	0.00
1/14/2018	6.26	0.00	9.92	0.00	2/14/2018	6.13	0.00	9.73	0.00
1/15/2018	6.23	0.00	9.88	0.00	2/15/2018	6.16	0.00	9.82	0.00
1/16/2018	6.06	0.00	9.02	0.00	2/16/2018	6.04	0.00	9.87	0.00
1/17/2018	5.97	0.00	10.02	0.00	2/17/2018	6.05	0.00	9.84	0.00
1/18/2018	6.27	0.00	9.47	0.00	2/18/2018	5.90	0.00	9.39	0.00
1/19/2018	6.16	0.00	9.37	0.00	2/19/2018	6.15	0.00	9.74	0.00
1/20/2018	6.23	0.00	9.91	0.00	2/20/2018	5.84	0.00	9.57	0.00
1/21/2018	6.00	0.00	9.59	0.00	2/21/2018	6.08	0.00	9.57	0.00
1/22/2018	5.83	0.00	8.42	0.00	2/22/2018	5.91	0.00	8.58	0.00
1/23/2018	5.83	0.00	8.59	0.00	2/23/2018	5.86	0.00	8.76	0.00
1/24/2018	6.04	0.00	10.50	0.00	2/24/2018	5.94	0.00	9.56	0.00
1/25/2018	6.12	0.00	10.07	0.00	2/25/2018	5.84	0.00	9.57	0.00
1/26/2018	6.13	0.00	9.81	0.00	2/26/2018	6.10	0.00	9.35	0.00
1/27/2018	5.89	0.00	9.71	0.00	2/27/2018	6.03	0.00	9.31	0.00
1/28/2018	6.28	0.00	10.08	0.00	2/28/2018	5.98	0.00	9.44	0.00
1/29/2018	5.99	0.00	10.13	0.00					
1/30/2018	6.19	0.00	9.54	0.00					
1/31/2018	6.24	0.00	9.93	0.00					
Total Time pH Out of Range:				0	Total Time pH Out of Range:				0

Intel Semi-Annual Wastewater Report | H1 2018

March 2018 – April 2018

Site Outfall Daily Minimum and Maximum pH Report										
Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (min)	Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (min)	
3/1/2018	6.14	0.00	9.36	0.00	4/1/2018	5.89	0.00	8.39	0.00	
3/2/2018	5.98	0.00	9.25	0.00	4/2/2018	6.29	0.00	9.60	0.00	
3/3/2018	5.91	0.00	7.70	0.00	4/3/2018	6.30	0.00	9.10	0.00	
3/4/2018	6.03	0.00	9.25	0.00	4/4/2018	6.19	0.00	9.52	0.00	
3/5/2018	5.95	0.00	8.30	0.00	4/5/2018	5.92	0.00	9.97	0.00	
3/6/2018	6.03	0.00	8.93	0.00	4/6/2018	5.97	0.00	9.51	0.00	
3/7/2018	6.15	0.00	9.12	0.00	4/7/2018	6.16	0.00	9.51	0.00	
3/8/2018	5.93	0.00	9.45	0.00	4/8/2018	6.16	0.00	9.42	0.00	
3/9/2018	6.09	0.00	9.77	0.00	4/9/2018	6.08	0.00	9.78	0.00	
3/10/2018	5.91	0.00	10.28	0.00	4/10/2018	5.99	0.00	8.63	0.00	
3/11/2018	6.03	0.00	9.80	0.00	4/11/2018	5.81	0.00	9.64	0.00	
3/12/2018	6.01	0.00	9.96	0.00	4/12/2018	6.72	0.00	9.77	0.00	
3/13/2018	5.99	0.00	10.01	0.00	4/13/2018	6.06	0.00	9.02	0.00	
3/14/2018	5.84	0.00	9.64	0.00	4/14/2018	6.27	0.00	9.33	0.00	
3/15/2018	6.05	0.00	9.19	0.00	4/15/2018	5.92	0.00	9.79	0.00	
3/16/2018	5.92	0.00	8.53	0.00	4/16/2018	6.08	0.00	10.15	0.00	
3/17/2018	5.97	0.00	9.66	0.00	4/17/2018	6.21	0.00	9.86	0.00	
3/18/2018	6.09	0.00	9.22	0.00	4/18/2018	6.21	0.00	9.93	0.00	
3/19/2018	5.88	0.00	9.36	0.00	4/19/2018	6.13	0.00	9.77	0.00	
3/20/2018	5.94	0.00	9.45	0.00	4/20/2018	6.01	0.00	9.59	0.00	
3/21/2018	5.95	0.00	9.08	0.00	4/21/2018	5.96	0.00	9.53	0.00	
3/22/2018	5.94	0.00	7.59	0.00	4/22/2018	6.17	0.00	9.64	0.00	
3/23/2018	5.91	0.00	9.77	0.00	4/23/2018	6.35	0.00	10.12	0.00	
3/24/2018	5.97	0.00	9.33	0.00	4/24/2018	6.38	0.00	9.82	0.00	
3/25/2018	5.86	0.00	7.97	0.00	4/25/2018	6.06	0.00	9.73	0.00	
3/26/2018	5.87	0.00	9.76	0.00	4/26/2018	5.98	0.00	9.58	0.00	
3/27/2018	5.86	0.00	8.06	0.00	4/27/2018	6.24	0.00	9.84	0.00	
3/28/2018	6.03	0.00	8.55	0.00	4/28/2018	6.13	0.00	9.27	0.00	
3/29/2018	5.96	0.00	9.22	0.00	4/29/2018	6.23	0.00	9.86	0.00	
3/30/2018	5.84	0.00	9.21	0.00	4/30/2018	6.10	0.00	10.07	0.00	
3/31/2018	5.94	0.00	9.53	0.00						
Total Time pH Out of Range:				0	Total Time pH Out of Range:				0	

Intel Semi-Annual Wastewater Report | H1 2018

May 2018 – June 2018

Site Outfall Daily Minimum and Maximum pH Report										
Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (min)	Date	Minimum pH	Duration Out of Range (min)	Maximum pH	Duration Out of Range (min)	
5/1/2018	6.10	0.00	9.49	0.00	6/1/2018	6.09	0.00	8.85	0.00	
5/2/2018	6.27	0.00	10.03	0.00	6/2/2018	6.38	0.00	9.24	0.00	
5/3/2018	6.17	0.00	9.38	0.00	6/3/2018	6.61	0.00	9.48	0.00	
5/4/2018	7.00	0.00	9.73	0.00	6/4/2018	6.61	0.00	9.90	0.00	
5/5/2018	6.55	0.00	9.76	0.00	6/5/2018	6.57	0.00	9.93	0.00	
5/6/2018	6.57	0.00	10.63	0.00	6/6/2018	6.58	0.00	9.72	0.00	
5/7/2018	6.64	0.00	10.55	0.00	6/7/2018	6.80	0.00	10.31	0.00	
5/8/2018	7.23	0.00	9.74	0.00	6/8/2018	6.72	0.00	10.28	0.00	
5/9/2018	7.02	0.00	10.55	0.00	6/9/2018	6.48	0.00	9.58	0.00	
5/10/2018	6.75	0.00	10.12	0.00	6/10/2018	6.50	0.00	9.83	0.00	
5/11/2018	7.08	0.00	10.17	0.00	6/11/2018	6.69	0.00	9.59	0.00	
5/12/2018	6.77	0.00	9.41	0.00	6/12/2018	6.43	0.00	8.89	0.00	
5/13/2018	6.98	0.00	9.58	0.00	6/13/2018	6.44	0.00	9.31	0.00	
5/14/2018	7.05	0.00	9.79	0.00	6/14/2018	6.42	0.00	9.30	0.00	
5/15/2018	6.64	0.00	9.97	0.00	6/15/2018	6.53	0.00	9.59	0.00	
5/16/2018	6.60	0.00	9.74	0.00	6/16/2018	6.15	0.00	9.54	0.00	
5/17/2018	6.70	0.00	10.01	0.00	6/17/2018	6.59	0.00	9.15	0.00	
5/18/2018	6.55	0.00	10.05	0.00	6/18/2018	6.70	0.00	9.76	0.00	
5/19/2018	6.61	0.00	10.16	0.00	6/19/2018	6.64	0.00	9.21	0.00	
5/20/2018	6.52	0.00	10.09	0.00	6/20/2018	6.53	0.00	9.64	0.00	
5/21/2018	6.74	0.00	10.00	0.00	6/21/2018	6.54	0.00	9.25	0.00	
5/22/2018	6.86	0.00	9.93	0.00	6/22/2018	6.65	0.00	10.14	0.00	
5/23/2018	6.69	0.00	10.20	0.00	6/23/2018	6.61	0.00	9.74	0.00	
5/24/2018	6.69	0.00	9.82	0.00	6/24/2018	6.58	0.00	9.24	0.00	
5/25/2018	6.80	0.00	9.37	0.00	6/25/2018	6.60	0.00	9.65	0.00	
5/26/2018	6.53	0.00	9.57	0.00	6/26/2018	6.70	0.00	9.41	0.00	
5/27/2018	6.50	0.00	9.87	0.00	6/27/2018	6.63	0.00	9.83	0.00	
5/28/2018	6.59	0.00	9.95	0.00	6/28/2018	6.93	0.00	9.70	0.00	
5/29/2018	6.64	0.00	9.31	0.00	6/29/2018	6.63	0.00	10.06	0.00	
5/30/2018	6.69	0.00	9.89	0.00	6/30/2018	6.47	0.00	9.39	0.00	
5/31/2018	6.61	0.00	9.68	0.00						
Total Time pH Out of Range:				0	Total Time pH Out of Range:				0	

ENDORSEMENT RC

REPORTING CERTIFICATION

COMPLIANCE REQUIREMENT: The Permittee is required to certify all materials and information submitted with semi-annual reports is accurate and complete.

MONITORING REQUIREMENT: None

REPORTING REQUIREMENT: The Permittee must complete, sign and submit the Reporting Certification (shown below) with each semi-annual report.

* * * * *


REPORTING CERTIFICATION

Facility Name: Intel Corporation

Permit Number: 2021A

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for known violations.

(Signature)



Authorized Representative

7/30/18
Date

ENDORSEMENT TC3

TOXIC ORGANIC MANAGEMENT PLAN CERTIFICATION STATEMENT

COMPLIANCE REQUIREMENT: The most recent TOXIC ORGANIC (SOLVENT) MANAGEMENT PLAN (TOMP) submitted by the Permittee to the Industrial Waste Engineer remains in effect. The Permittee must notify the Industrial Waste Engineer, in writing, of any changes to the TOMP.

MONITORING REQUIREMENT: None required by the Permittee.

REPORTING REQUIREMENT: The Permittee shall continue to submit a TOXIC ORGANIC MANAGEMENT PLAN CERTIFICATION STATEMENT with each semiannual report. A sample certification statement has been provided below.

* * * *

The Toxic Organic Management Plan is included as Attachment B.

TOXIC ORGANIC MANAGEMENT PLAN CERTIFICATION STATEMENT

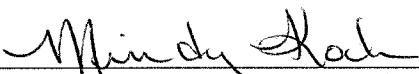
Based upon my inquiry of the person or persons directly responsible for managing compliance with the permit limitations [or pretreatment standard] for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred during this reporting period. I further certify that this facility is implementing the TOXIC ORGANIC MANAGEMENT PLAN (TOMP) submitted to the Industrial Waste Engineer.

Facility Name: Intel Corporation

Permit No.: 2021A

Date: 7/30/18

Signature:


Authorized Representative

Title: Manager

NM Site Corporate Services

ENDORSEMENT INGA2 SPECIAL WASTESTREAM POLLUTANT LIMITATIONS FOR PERMIT 2021A

COMPLIANCE REQUIREMENT: The concentration of the following pollutants in the flow through the sampling point shall not exceed that shown below:

POLLUTANT	MAXIMUM FOR ANY 1 DAY
Indium	0.30 mg/l
Gallium	See Schedule Below

Step	Gallium Concentration	Effective Dates
1	1.00 mg/L	2/7/2018 – 8/31/2019
2	2.00 mg/l	9/1/2018 – 2/28/2019
3	3.125 mg/L	3/1/2019 - onward

MONITORING REQUIREMENT: The permittee is required to sample the site discharge for the above pollutants monthly. Each monthly monitoring event must be performed using a 24 hour composite sample. Once per step and semi-annually there after the permittee must perform a monitoring event for four days in a row using a 24 hour composite sampler. All analysis must be done using EPA approved methods.

REPORTING REQUIREMENT: If the EPA method is not applicable the permittee must submit production values and calculations in each semi-annual report that show the concentrations of the above pollutants at the site outfall.

In compliance with Endorsement INGA2, Intel NM submitted monthly Indium and Gallium Sampling results collected during H1 2018 to ABCWUA on March 8th, April 4th, June 7th, and July 5th, 2018. The semi-annual sampling results submitted to ABCWUA on May 7th, 2018 (Attachment D) served as the monthly submittal for May 2018.

Monthly Indium and Gallium analytical reports are attached for reference.

ENDORSEMENT PT

SPECIAL WASTESTREAM POLLUTANT LIMITATIONS FOR PERMIT 2021A

COMPLIANCE REQUIREMENT: The concentration of Platinum in the flow through the sampling point shall not exceed that shown below:

POLLUTANT	MAXIMUM FOR ANY 1 DAY
Platinum	0.10 mg/l

MONITORING REQUIREMENT: The permittee is required to sample the site discharge for the above pollutants semi-annually. Each semi-annual monitoring event must be performed four day in a row using a 24-hour composite sample. All analysis must be done using EPA approved methods. If the EPA method is not applicable, the permittee must submit production values and calculations in each semi-annual report that show the concentrations of the above pollutants at the site outfall.

REPORTING REQUIREMENT: Submit semi-annual sampling results within the 14 day reporting requirement that show the concentrations of Platinum at the site outfall.

Semi-Annual Sampling for Platinum was conducted from April 9th through April 13th, 2018. Intel NM received analytical results on April 26th, 2018 and submitted the results to ABCWUA on May 7th, 2018. Semi-annual sampling results are attached for reference.

ENDORSEMENT SM

SELF-MONITORING

COMPLIANCE REQUIREMENT: Per 40 CFR 403.12(n) the Permittee is required to submit all test results from self-monitoring sampling meeting the following criteria:

- Obtained at the designated sample site;
- Obtained through appropriate sampling techniques; and
- Analyzed in accordance with the procedures established in 40 CFR 136

MONITORING REQUIREMENT: The Permittee is not required to sample the effluent flow because the Water Authority monitors. However, if the Permittee does sample and meets the above criteria, results must be submitted.

REPORTING REQUIREMENT: Within 14 days after the Permittee becomes aware of sample results meeting the Compliance Requirement above, or 24 hours after the Permittee becomes aware of sample results indicating a violation of the Wastewater Discharge Permit, the Permittee is required to submit the following:

- The date, exact place, method, and time of sampling and the names of the person or person taking the samples'
- The dates analyses were performed;
- Who performed the analyses;
- The analytical techniques/methods used; and
- The results of such analyses

The Permittee subject to the reporting requirements established in this section shall retain for a minimum of three (3) years any records of monitoring activities and results, and shall make such records available for inspection and copying. This period of retention shall be extended during the course of any unresolved litigation regarding the Permittee or Water Authority or when requested by the Industrial Pretreatment Engineer.

NOTE: Split samples between the Permittee and the Water Authority, which meet the Compliance Requirement, will be averaged. All other samples, which meet the Compliance Requirement, will be used as individual sampling events. All samples, which meet the Compliance Requirement, will be used to determine the following:

- Violations of the Permittee's Wastewater Discharge Permit; and/or
- Significant non-Compliance (see Section 3-9-1 of the Water Authority Sewer Use and Wastewater Control Ordinance).

In compliance with Endorsement SM, semi-annual sampling was conducted from April 9th through April 13th, 2018. Intel NM received analytical results on April 26th, 2018 and submitted the results to ABCWUA on May 7th, 2018.

Supplemental sampling was conducted on May 23rd, 2018. Intel NM received analytical results on May 31st, 2018 and submitted the results to ABCWUA on June 7th, 2018.

Sampling results from both sampling events are attached for reference.

ENDORSEMENT WM

POLLUTION PREVENTION THROUGH SOURCE REDUCTION AND WASTE MINIMIZATION

COMPLIANCE REQUIREMENT: Permittees shall endeavor, whenever feasible, to reduce or eliminate otherwise polluting substances in waste stream(s) by source reduction, waste minimization or more effective pretreatment.

MONITORING REQUIREMENT: None required by the Permittee.

REPORTING REQUIREMENTS: The Permittee shall include a narrative statement with each semi-annual report describing any source reduction, waste minimization or pretreatment efforts undertaken during the reporting period. If no such efforts are undertaken, the Permittee shall include a statement to that effect in the report.

Pollution Prevention through Source Reduction and Waste Minimization Statement

January 2018-June 2018

Water Use Reduction Projects:

Intel began piloting a water conditioning technology on the cooling towers to reduce water consumption and water treatment chemical usage. The pilot is expected to continue through the second half of 2018.

Intel is in the process of making an operational change to reduce the number of annual Cation/Anion bed regeneration cycles thereby reducing water consumption. The project is expected to continue into the second half of 2018.

Intel NM is currently working to eliminate water flow through two offline analyzers. The project is expected to continue into the second half of 2018.

Source Reduction Projects:

None for this time period.

NM Site Recycling Rate:

The Intel NM site had a non-hazardous chemical waste recycling rate of 98.7% for H1 2018.

ENDORSEMENT TR6

TOXIC ORGANIC (SOLVENT) MANAGEMENT PLAN

COMPLIANCE REQUIREMENT: The Permittee is required to submit a TOXIC ORGANIC (SOLVENT) MANAGEMENT PLAN (TOMP) to the Industrial Waste Engineer every two years, and when changes to the plan occur. The Plan shall identify all toxic organics used onsite, quantities used and stored at the facility, procedures followed to prevent discharge and spills of these materials to the sanitary sewer, and the method of disposal used in place of discharge to the sanitary sewer. The TOXIC ORGANIC (SOLVENT) MANAGEMENT PLAN shall be submitted to the Industrial Waste Engineer no later than April 1, 2016. It is recommended that the TOMP be posted in the facility work area.

MONITORING REQUIREMENT: None required by the Permittee.

REPORTING REQUIREMENTS: The Permittee shall also submit a TOXIC ORGANIC MANAGEMENT PLAN CERTIFICATION STATEMENT with each semi-annual report. The CERTIFICATION STATEMENT is included in this permit as Endorsement TC3.

In compliance with Endorsement TR6 and TC3, the Toxic Organic Management Plan is attached.

Attachments

Attachment A - Intel NM grease trap pumping manifests – H1 2018

Attachment B - Intel NM TOMP – March 2018 Update:

Attachment C - Monthly Indium Gallium Sampling Reports

Attachment D - Semi-annual monitoring analytical results

Attachment E - Site Outfall Flow Meter Calibration Records

ATTACHMENT A

Intel NM Grease Trap Pumping Manifests – H1 2018

R15 GREASE TRAP Pump

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL TRIP MANIFEST
60075

WASTE PRODUCER

PRODUCER'S NAME Fotel KLS PHONE _____ APPROX. GALLONS 150 DATE OF COLLECTION 1/5/18
ADDRESS 4100 SRA Rd WASTE TYPE: SAND OR GRIT GREASE
CITY Rio Rancho STATE NM ZIP _____

RESPON. PERSON [Signature] DATE 1/5/18

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE [Signature] DATE 1/5/18 PERMIT NO. 58029

DISPOSAL SITE DATE STAMP

HAULER'S BILLING INFORMATION

AAA Pumping Service
1-5-18

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT
<u>32775</u>	<u>1/5/18</u>	

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

DISPOSAL TRIP MANIFEST ²⁵ LDDTIS RRS TRAP AT POT WASH
 Rio Rancho, Grease Removal Device Report

Inspection Date <u>1-5-18</u> Service Date <u>1-5-18</u> Technician/Company <u>BELLY HARRIS</u>		Comments
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	<u>15</u> Inches	
Depth of FOG (fats, oils, grease)	<u>2.5</u> Inches	
Depth of Solids	<u>1/4</u> Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	<u>Yes/No</u>	
Prior to opening is odor from the interceptor present 10' or greater?	<u>Yes/No</u>	
Are the access covers in need of repair?	<u>Yes/No</u>	
FOG Passing by Interceptor?	<u>Yes/No</u>	
Does grease interceptor need immediate repair?	<u>Yes/No</u>	
Are there signs the grease interceptor walls may be deteriorating?	<u>Yes/No</u>	
Are there signs the grease interceptor may be leaking?	<u>Yes/No</u>	
Was the grease interceptor pressure washed?	<u>Yes/No</u>	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	<u>Yes/No</u>	
Is there any leakage under the baffle wall?	<u>Yes/No</u>	
Was all grease removed from walls, ledges and ridges?	<u>Yes/No</u>	
Total Gallons pumped out:	<u>50</u>	
Location where grease was disposed of:	<u>AAA AMPINE YARD</u>	

Inspection Date <u>1-5-18</u> Service Date <u>1-5-18</u> Technician/Company <u>BULTHARSA</u>		Comments
Rio Rancho Grease Trap		
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/16 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA RAMPING YARD	

D. I. M. # 60575

27 RRS TRAP BY OFFICE

Rio Rancho, Grease Removal Device Report

Inspection Date <u>1-5-18</u> Service Date <u>1-5-18</u> Technician/Company <u>BLEY HAAS</u>		Comments
Rio Rancho Grease Trap		
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	1/32 Inches	
Depth of Solids	1/16 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA Remains YARD	

AAA RAPPING

D.T.M. # 68875

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RRS TRAP FROM COFFEE W/ W
Rio Rancho, Grease Removal Device Report

Rio Rancho Grease Trap		Comments
Inspection Date <u>1-5-18</u>	Service Date <u>1-5-18</u>	Technician/Company <u>Billy Harso</u>
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	<u>12</u> Inches	
Depth of FOG (fats, oils, grease)	<u>0</u> Inches	
Depth of Solids	<u>3/4</u> Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/ <u>No</u>	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/ <u>No</u>	
Are the access covers in need of repair?	Yes/ <u>No</u>	
FOG Passing by Interceptor?	Yes/ <u>No</u>	
Does grease interceptor need immediate repair?	Yes/ <u>No</u>	
Are there signs the grease interceptor walls may be deteriorating?	Yes/ <u>No</u>	
Are there signs the grease interceptor may be leaking?	Yes/ <u>No</u>	
Was the grease interceptor pressure washed?	Yes/ <u>No</u>	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/ <u>No</u>	
Is there any leakage under the baffle wall?	Yes/ <u>No</u>	
Was all grease removed from walls, ledges and ridges?	Yes/ <u>No</u>	
Total Gallons pumped out:	<u>20</u>	
Location where grease was disposed of:	<u>AAA Reming Yard</u>	

AAA Reming

RR5 Grease Trap Pump

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL TRIP MANIFEST
61129

WASTE PRODUCER

PRODUCER'S NAME Jura Res PHONE _____ DATE OF _____
ADDRESS 4100 S. 2nd St GALLONS 150 COLLECTION 1/19/18
CITY Las Lunas STATE NM ZIP _____ WASTE TYPE:
 SAND OR GRIT GREASE
 OTHER - DESCRIBE _____

RESPON. PERSON [Signature] DATE 1/19/18

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE [Signature] DATE 1/19/18 PERMIT NO. Permit 2418

DISPOSAL SITE DATE STAMP

HAULERS BILLING INFORMATION

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

DISPOSAL TRIP MANIFEST # 61129 RRS TRAP BY POT WASH
 25 Rio Rancho, Grease Removal Device Report Raul Rivera AAA Pumping

Rio Rancho Grease Trap		Comments
Inspection Date	1-19-18	Service Date 1-19-18 Technician/Company Brett HRSR AAA Pumping
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	25 Inches	
Depth of Solids	1/8 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA Pumping Yard	

D.T.M. # 61129

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RR5 TRAP UNDER TABLE
Rio Rancho, Grease Removal Device Report

PAUL RIVERA

BITTHERS AAA RAMPING

Inspection Date <u>1-19-18</u> Service Date <u>1-19-18</u> Technician/Company <u>BITTHERS AAA RAMPING</u>		Comments
Rio Rancho Grease Trap		
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	3/32 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA RAMPING YARD	

D.T.M. # 61129

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RRS TRAP BY OFFICE
Rio Rancho, Grease Removal Device Report

PAUL RIVERA

Inspection Date 1-19-18 Service Date 1-19-18 Technician/Company BETTER ~~TRAP~~ / AAA PUMPING
Rio Rancho Grease Trap Comments

Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/16 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA PUMPING YARD	

D.T.M. # 61129

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RRS TRAP FROM COFFEE AREA W/IN
Rio Rancho, Grease Removal Device Report

PAUL RIVERS

Inspection Date 1-19-18 Service Date 1-19-18 Technician/Company AAA PUMPS
Rio Rancho Grease Trap Comments

Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	3/4 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA PUMPS YARD	

RR5 GREASE TRAP PUMP

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL TRIP MANIFEST
61381

WASTE PRODUCER

PRODUCER'S NAME Intel RLS PHONE _____ DATE OF APPROX. _____
 ADDRESS 4100 SARA RD GALLONS 150 COLLECTION 2/2/18
 CITY Los Alamos STATE NM ZIP _____ WASTE TYPE: SAND OR GRIT GREASE
 OTHER - DESCRIBE _____

RESPON. PERSON [Signature] DATE 2/2/18

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE [Signature] DATE 2/2/18 PERMIT NO. Perf

DISPOSAL SITE DATE STAMP

HAULER'S BILLING INFORMATION

AAA Pumping Service

2-2-18

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT
33045	2/2/18	

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

DISPOSAL TRIP MANIFEST # 61381
25

R.R.S. TRAP BY RT WASH
Rio Rancho, Grease Removal Device Report

Inspection Date <u>2-2-18</u> Service Date <u>2-2-18</u> Technician/Company <u>BULLHARST</u> Comments <u>AAA REPWS</u>	
Rio Rancho Grease Trap	
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches
Depth of FOG (fats, oils, grease)	2 Inches
Depth of Solids	1/2 Inches
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No
Are the access covers in need of repair?	Yes/No
FOG Passing by Interceptor?	Yes/No
Does grease interceptor need immediate repair?	Yes/No
Are there signs the grease interceptor walls may be deteriorating?	Yes/No
Are there signs the grease interceptor may be leaking?	Yes/No
Was the grease interceptor pressure washed?	Yes/No
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No
Is there any leakage under the baffle wall?	Yes/No
Was all grease removed from walls, ledges and ridges?	Yes/No
Total Gallons pumped out:	50
Location where grease was disposed of:	AAA Pumping Yard

D. T.M. # 61381

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R.R.S. TRAP UNDER TABLE
Rio Rancho, Grease Removal Device Report

Inspection Date 2-2-18 Service Date 2-2-18 Technician/Company BILLY HARSO AAA PUMPING

Rio Rancho Grease Trap		Comments
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/16 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA Pumping Yard	

D.T.M. # 61981

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RR5 TRAP BY OFFICE
Rio Rancho, Grease Removal Device Report

Inspection Date 2-2-18 Service Date 2-2-18 Technician/Company BILLY HARSO / AAA RAMPING

Rio Rancho Grease Trap		Comments
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA RAMPING YARD	

D. T.M. # 61381
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 RR5 TRAP FROM COFFEE N/W
 Rio Rancho, Grease Removal Device Report

Inspection Date <u>2-2-18</u> Service Date <u>2-2-18</u> Technician/Company <u>BILL HARSO</u> Comments <u>AAA Pumping</u>	
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches
Depth of FOG (fats, oils, grease)	0 Inches
Depth of Solids	3/4 Inches
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No
Are the access covers in need of repair?	Yes/No
FOG Passing by Interceptor?	Yes/No
Does grease interceptor need immediate repair?	Yes/No
Are there signs the grease interceptor walls may be deteriorating?	Yes/No
Are there signs the grease interceptor may be leaking?	Yes/No
Was the grease interceptor pressure washed?	Yes/No
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No
Is there any leakage under the baffle wall?	Yes/No
Was all grease removed from walls, ledges and ridges?	Yes/No
Total Gallons pumped out:	20
Location where grease was disposed of:	AAA Pumping

RRS GREASE TRAP PUMP

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL
TRIP MANIFEST
61390

WASTE PRODUCER

PRODUCER'S NAME Hotel RES PHONE _____ APPROX. GALLONS 150 DATE OF COLLECTION 2/16/18

ADDRESS 4100 Santa Rd WASTE TYPE: SAND OR GRIT GREASE

CITY Rio Rancho STATE NM ZIP _____ OTHER - DESCRIBE _____

RESPON. PERSON X [Signature] DATE 2/16/18 WASTE TRANSPORTER _____

TRUCK DRIVERS SIGNATURE X [Signature] DATE 2/16/18 PERMIT NO. 0714

DISPOSAL SITE DATE STAMP

HAULER'S BILLING INFORMATION

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

Inspection Date <u>2-16-18</u> Service Date <u>2-16-18</u> Technician/Company <u>RAUL RIVERA</u>		Comments
<i>Rio Rancho Grease Trap</i>		
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	<u>15</u> Inches	
Depth of FOG (fats, oils, grease)	<u>2.5</u> Inches	
Depth of Solids	<u>1/4</u> Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	<u>Yes/No</u>	
Prior to opening is odor from the interceptor present 10' or greater?	<u>Yes/No</u>	
Are the access covers in need of repair?	<u>Yes/No</u>	
FOG Passing by Interceptor?	<u>Yes/No</u>	
Does grease interceptor need immediate repair?	<u>Yes/No</u>	
Are there signs the grease interceptor walls may be deteriorating?	<u>Yes/No</u>	
Are there signs the grease interceptor may be leaking?	<u>Yes/No</u>	
Was the grease interceptor pressure washed?	<u>Yes/No</u>	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	<u>Yes/No</u>	
Is there any leakage under the baffle wall?	<u>Yes/No</u>	
Was all grease removed from walls, ledges and ridges?	<u>Yes/No</u>	
Total Gallons pumped out:	<u>50</u>	
Location where grease was disposed of:	<u>AAA RAMPING YARD</u>	

D. T. M. # 61398

RRS TRAP UNDER TABLE
26 Rio Rancho, Grease Removal Device Report

Inspection Date <u>2-16-18</u> Service Date <u>2-16-18</u> Technician/Company <u>Earl Rivera AAA Reming</u>		Comments
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/6 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA Reming Yard	

D.T.M. # 61392

27 RRS TRAP BY OFFICE
Rio Rancho, Grease Removal Device Report

Inspection Date <u>2-16-18</u> Service Date <u>2-16-18</u> Technician/Company <u>Raul Rivera AAA Pumping</u>		Comments
<i>Rio Rancho Grease Trap</i>		
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA Pumping Yard	

D. Tim # 6189D

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RRS TRAP FROM COFFEE W/C
Rio Rancho, Grease Removal Device Report

Inspection Date <u>2-16-18</u> Service Date <u>2-16-18</u> Technician/Company <u>RAUL RIVERA AAA PUMPING</u>		Comments
Rio Rancho Grease Trap		
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA PUMPING YARD	

RRS GREASE TRAP PUMP

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL TRIP MANIFEST
61276

WASTE PRODUCER

PRODUCER'S NAME Intel RLS PHONE _____ APPROX. GALLONS 150 DATE OF COLLECTION 3/2/18
ADDRESS 400 Santa Rd WASTE TYPE: SAND OR GRIT GREASE
CITY Los Ranchos STATE NM ZIP _____ OTHER - DESCRIBE _____
RESPON. PERSON X [Signature] DATE 3/2/18

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X [Signature] DATE 3/2/18 PERMIT NO. 5

DISPOSAL SITE DATE STAMP

HAULER'S BILLING INFORMATION

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT
<u>33321</u>	<u>3/2/18</u>	

AAA Pumping Service
3-2-18

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

DISPOSAL TRIP MANIFEST # 61976
 25 RRS TRAP BY POT WASH
 Rio Rancho, Grease Removal Device Report

Rio Rancho Grease Trap		Comments
Inspection Date	3-2-18	Service Date 3-2-18 Technician/Company BILLY HARRIS AAA Removs
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	3.25 Inches	
Depth of Solids	0.25 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA RAMPING YARD	

D. T. M. # 619276

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RRS TRAP UNDER TABLE
Rio Rancho, Grease Removal Device Report

Rio Rancho Grease Trap		Comments
Inspection Date	3-2-18	Service Date 3-2-18 Technician/Company BILLY HARSO AAA PUMPING
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/8 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA PUMPING YARD	

D.T.M. # 618716

RRS TRAP BY OFFICE
27 Rio Rancho, Grease Removal Device Report

Rio Rancho Grease Trap		Comments
Inspection Date	3-2-18	Service Date 3-2-18 Technician/Company BILLY HARVE AAA PERMITS
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA RUMMING YARD	

D.T.M. # 61276

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RRS TRAP FROM COFFEE AREA N/W
Rio Rancho, Grease Removal Device Report

Rio Rancho Grease Trap		Comments
Inspection Date	3-2-18	Service Date 3-2-18 Technician/Company BILLY HARRIS AAA REPAIRS
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	1/32 Inches	
Depth of Solids	1/2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA REPAIRS	AAA REPAIRS

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
 Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL TRIP MANIFEST
61713

WASTE PRODUCER

PRODUCER'S NAME Intel RLS PHONE _____ APPROX. GALLONS 150 DATE OF COLLECTION 4/6/18
 ADDRESS 4100 Santa Rd WASTE TYPE: SAND OR GRIT GREASE
 CITY Los Alamos STATE NM ZIP _____ OTHER - DESCRIBE _____

RESPON. PERSON [Signature] DATE 4/6/18

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE [Signature] DATE 4/6/18 PERMIT NO. [Signature]

DISPOSAL SITE DATE STAMP

HAULER'S BILLING INFORMATION

AAA Pumping Service
4/6/18

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT
33763	4/6/18	

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

DISPOSAL TRIP MANIFEST # 61913 25

RRS TRAP BY RAT WASH
Rio Rancho, Grease Removal Device Report

Inspection Date <u>4-6-18</u> Service Date <u>4-6-18</u> Technician/Company <u>Billy Harso</u>		Comments
Rio Rancho Grease Trap		
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	6 Inches	
Depth of Solids	1 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	<input checked="" type="radio"/> Yes/ <input type="radio"/> No	VENDOR HAD TO SEND A VISIT
Prior to opening is odor from the interceptor present 10' or greater?	<input type="radio"/> Yes/ <input checked="" type="radio"/> No	
Are the access covers in need of repair?	<input type="radio"/> Yes/ <input checked="" type="radio"/> No	
FOG Passing by Interceptor?	<input type="radio"/> Yes/ <input checked="" type="radio"/> No	
Does grease interceptor need immediate repair?	<input type="radio"/> Yes/ <input checked="" type="radio"/> No	
Are there signs the grease interceptor walls may be deteriorating?	<input type="radio"/> Yes/ <input checked="" type="radio"/> No	
Are there signs the grease interceptor may be leaking?	<input type="radio"/> Yes/ <input checked="" type="radio"/> No	
Was the grease interceptor pressure washed?	<input type="radio"/> Yes/ <input checked="" type="radio"/> No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	<input type="radio"/> Yes/ <input checked="" type="radio"/> No	
Is there any leakage under the baffle wall?	<input type="radio"/> Yes/ <input checked="" type="radio"/> No	
Was all grease removed from walls, ledges and ridges?	<input checked="" type="radio"/> Yes/ <input type="radio"/> No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA	PUMPING TRUCK

AAA Pumping

D.I.M. # 61713

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RRS TRAP UNDER TABLE

Rio Rancho, Grease Removal Device Report

Inspection Date 4-6-18

Service Date 4-6-18

Technician/Company BILLY HARTO

AAA Pumping

Rio Rancho Grease Trap

Comments

Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	1/8 Inches	
Depth of Solids	1/8 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA	PUMPING YARD

D.T.M. # 6/17/13

27

RRS TRAP BY OFFICE

Rio Rancho, Grease Removal Device Report

Inspection Date 4-6-18 Service Date 4-6-18 Technician/Company BILLY HARSO AAA Pumping
Rio Rancho Grease Trap Comments

Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	1/32 Inches	
Depth of Solids	1/4 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA	PUMPING YARD

D. TIM, # 61713 28 RRS TRAP FROM CAFE AREA N/C

Rio Rancho, Grease Removal Device Report

Inspection Date <u>4-6-18</u> Service Date <u>4-6-18</u> Technician/Company <u>BILLY HARRIS</u>		Comments
<i>Rio Rancho Grease Trap</i>		
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1.5 Inches	COFFEE
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA	REPAIRS

RR5 GREASE TRIP PUMP

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL TRIP MANIFEST
61823

WASTE PRODUCER

PRODUCER'S NAME Intel RPS PHONE _____ APPROX. GALLONS 150 DATE OF COLLECTION 4/20/18
ADDRESS 4100 Santa Rd WASTE TYPE: SAND OR GRIT GREASE
CITY Los Alamos STATE NM ZIP _____ OTHER - DESCRIBE _____
RESPON. PERSON [Signature] DATE 4/20/18

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE [Signature] DATE 4/20/18 PERMIT NO. [Signature]

DISPOSAL SITE DATE STAMP

HAULERS BILLING INFORMATION

AAA Pumping Service
4-20-18

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT
<u>33830</u>	<u>4/20/18</u>	

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

DISPOSAL TRIP MANIFEST # 61823
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RRS TRAP BY POT WASH
Rio Rancho, Grease Removal Device Report

Rio Rancho Grease Trap		Comments
Inspection Date	4-20-18	Service Date 4-20-18 Technician/Company BLYTHES AAA RAMPING
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	2 3/4 Inches	
Depth of Solids	1/2 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/NO	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/NO	
Are the access covers in need of repair?	Yes/NO	
FOG Passing by Interceptor?	Yes/NO	
Does grease interceptor need immediate repair?	Yes/NO	
Are there signs the grease interceptor walls may be deteriorating?	Yes/NO	
Are there signs the grease interceptor may be leaking?	Yes/NO	
Was the grease interceptor pressure washed?	Yes/NO	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/NO	
Is there any leakage under the baffle wall?	Yes/NO	
Was all grease removed from walls, ledges and ridges?	Yes/NO	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA RAMPING YARD.	

DT.M. # 61823

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RPS TRAP UNDER TABLE
Rio Rancho, Grease Removal Device Report

Inspection Date 4-20-18 Service Date 4-20-18 Technician/Company BILLY HARSO AAA RANCHO

Rio Rancho Grease Trap

Comments

Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	1/32 Inches	
Depth of Solids	1/16 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA	PUMPS YARD

D.T.M. # 61823

27 RRS-TRAP B-1 OFFICE
Rio Rancho, Grease Removal Device Report

Rio Rancho Grease Trap		Comments
Inspection Date	4-20-18	Service Date 4-20-18 Technician/Company BILLY HALSO AAA Pumping
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	1/32 Inches	
Depth of Solids	1/16 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA Pumping	

D.T.M. # 61823

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RRS - TRAP FROM COFFEE W/AL
Rio Rancho, Grease Removal Device Report

Inspection Date 4-20-18 Service Date 4-20-18 Technician/Company BILLY HARRIS Comments AAA Pumping

Rio Rancho Grease Trap		Comments
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	1/32 Inches	
Depth of Solids	3/4 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA	PUMPING YARD

RR5 GREASE TRAP PUMP

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL
TRIP MANIFEST
62654

WASTE PRODUCER

PRODUCER'S NAME Intel RR5 PHONE _____ APPROX. DATE OF
ADDRESS 4100 Sara RD GALLONS 150 COLLECTION 5/4/18
CITY Rio Rancho STATE NM ZIP _____ WASTE TYPE:
 SAND OR GRIT GREASE
RESPON. PERSON X JM DATE 5/4/18 OTHER - DESCRIBE _____

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE [Signature] DATE 5/4/18 PERMIT NO. 0723
DISPOSAL SITE DATE STAMP _____ HAULER'S BILLING INFORMATION _____

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT
<u>3405</u>	<u>1/1</u>	

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA SEPTIC TANK & PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

Rio Rancho Grease Trap		Comments
Inspection Date	5-4-18	Service Date 5-4-18 Technician/Company Joe BATEMAN AAA RANCHO
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	3 Inches	
Depth of Solids	1/4 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA RANCHO YARD	

D.T.M. # 62654

26 RRS TRAP UNDER TABLE
Rio Rancho, Grease Removal Device Report

Rio Rancho Grease Trap		Comments
Inspection Date	5-4-18	Service Date 5-4-18 Technician/Company JOE BATEMAN AAA Pumping
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	1/32 Inches	
Depth of Solids	1/16 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA Pump Yard	

DISPOSAL TRAP MANIFEST # 624654 RRS TRAP BY OFFICE
Rio Rancho, Grease Removal Device Report

Inspection Date <u>5-4-18</u> Service Date <u>5-4-18</u> Technician/Company <u>DE BATEMAN AAA RAMPING</u>		Comments
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	1/32 Inches	
Depth of Solids	1/32 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA RAMPING YARD	

D. T. M. * 62654

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RRS TRAP FROM COFFEE NICE

Rio Rancho, Grease Removal Device Report

Rio Rancho Grease Trap		Comments
Inspection Date	5-4-18	Service Date 5-4-18 Technician/Company DE BATEMAN AAA RAMPING
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	3/4 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA RAMPING YARD	

RR5 GREASE TRAP PUMP

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL TRIP MANIFEST
62573

WASTE PRODUCER

PRODUCER'S NAME Intel RRS PHONE _____ APPROX. GALLONS 150 DATE OF COLLECTION 5/18/18
ADDRESS 4100 Santa Rd WASTE TYPE: SAND OR GRIT GREASE
CITY Rio Rancho STATE NM ZIP _____
RESPON. PERSON X [Signature] DATE 5/18/18 OTHER - DESCRIBE _____
WASTE TRANSPORTER

TRUCK DRIVERS SIGNATURE X [Signature] DATE 5/18/18 PERMIT NO. _____
DISPOSAL SITE DATE STAMP _____ HAULER'S BILLING INFORMATION _____

AAA Pumping Service
5-18-18

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT
<u>34138</u>	<u>5/18/18</u>	

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA SEPTIC TANK & PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

DISPOSAL TRIP MANIFEST # 62573
 25
 RRS TRAP BY PT WASH
 Rio Rancho, Grease Removal Device Report

Inspection Date <u>5-18-18</u> Service Date <u>5-18-18</u> Technician/Company <u>BILLY HARRIS</u>		Comments
Rio Rancho Grease Trap		
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	3.25 Inches	
Depth of Solids	.25 Inches	✓
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA Pumping Trap	

AAA Pumping

D. T. W. # 625713

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RKS TRAP UNDER TABLE
Rio Rancho, Grease Removal Device Report

Inspection Date <u>5-18-18</u> Service Date <u>5-18-18</u> Technician/Company <u>BURT AREB</u>		Comments
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	1/32 Inches	
Depth of Solids	1/4 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAE Campus YARD	

AAE Campus

D. T.M. # 625713

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RAS 7240 BT
RIO Rancho, Grease Removal Device Report

Inspection Date <u>5-18-18</u> Service Date <u>5-18-18</u> Technician/Company <u>BRET HANCO</u>		Comments
Rio Rancho Grease Trap		
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	1/32 Inches	
Depth of Solids	1/32 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA RAMPUS YARD	

AAA RAMPUS

D. T.M. # 62572

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RRS TMAP Frey GFTHE NSU
Rio Rancho, Grease Removal Device Report

Inspection Date <u>5-18-18</u> Service Date <u>5-18-18</u> Technician/Company <u>Belt Horse</u>		Comments
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	34 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA	REPAIRING TRAP

AAA REPORT

RR 5 GREASE TRAP PUMP

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL TRIP MANIFEST
63344

WASTE PRODUCER

PRODUCER'S NAME Intel-R25 PHONE 870-7410 APPROX. GALLONS 150 DATE OF COLLECTION 6/1/18
ADDRESS 4100 Sara RD WASTE TYPE: SAND OR GRIT GREASE
CITY Rio Rancho STATE NM ZIP _____

RESPON. PERSON X [Signature] DATE 6/1/18 OTHER - DESCRIBE _____
WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE X [Signature] DATE 6/1/18 PERMIT NO. SF0732d
DISPOSAL SITE DATE STAMP HAULER'S BILLING INFORMATION

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA SEPTIC TANK & PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

FORM M2900 ©2000 AAA PUMPING SERVICE, INC.

Inspection Date <u>6-1-18</u> Service Date <u>6-1-18</u> Technician/Company <u>RUBEN BORTA AAA Repair</u>		Comments
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	3 Inches	
Depth of Solids	1/4 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA Pumps Yard	

D.T.M. # 63344

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R.R.S. TRAP UNDER TABLE
Rio Rancho, Grease Removal Device Report

Rio Rancho Grease Trap		Comments
Inspection Date	6-1-18	Service Date 6-1-18 Technician/Company RUBEN HONTIYA AAA REPORT
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	1/32 Inches	
Depth of Solids	1/32 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA Remover Tank	

D.T.M. * 63344

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R.R.S. MAP BY OFFICE

Rio Rancho, Grease Removal Device Report

Inspection Date 6-1-18

Service Date 6-1-18

Technician/Company RUBEN MONTEYA AAA REMANE

Rio Rancho Grease Trap

Comments

Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	1/8 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA	Remane TRAD

D.T.M. # 103344

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RPS - TBAP FROM COFFEE YES
Rio Rancho, Grease Removal Device Report

Inspection Date <u>6-1-18</u> Service Date <u>6-1-18</u> Technician/Company <u>Rubin Mendoza AAA Pumping</u>		Comments
Rio Rancho Grease Trap		
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	3/4 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	20	
Location where grease was disposed of:	AAA Pumping TAB	

RR7 GREAS TRAP PUMP

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

RR7
DISPOSAL TRIP MANIFEST
62825

WASTE PRODUCER

PRODUCER'S NAME Int'l RR7

PHONE _____

APPROX. GALLONS

DATE OF

WASTE TYPE: 1,500

COLLECTION

6/21/18

ADDRESS 4100 Santa Fe St

CITY Los Alamos

STATE NM ZIP _____

SAND OR GRIT

GREASE

OTHER - DESCRIBE _____

RESPON. PERSON [Signature]

DATE

6/21/18

WASTE TRANSPORTER

TRUCK DRIVER'S SIGNATURE [Signature]

DATE

6/21/18

PERMIT NO.

5729

DISPOSAL SITE DATE STAMP

HAULER'S BILLING INFORMATION

AAA Pumping Service

6-21-18

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT
<u>34581</u>	<u>6/21/18</u>	

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA SEPTIC TANK & PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

~~XXXXXXXXXXXX~~ **RR7** ~~XXXXXXXXXXXX~~ **OUTSIDE WALLS TRAP**
Disposal Trip Manifest # 62825 **Rio Rancho, Grease Removal Device Report**

Inspection Date 6-21-18 Service Date 6-21-18 Technician/Company BILL HANSEN AAA-Bumpins
Rio Rancho Grease Trap Comments

Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	Inches = <u>6 FEET</u>	
Depth of FOG (fats, oils, grease)	<u>0</u> Inches	<u>KITCHEN STILL CLOSED (4 YEARS)</u>
Depth of Solids	<u>6</u> Inches	<u>ALL COFFEE</u>
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No <u>No</u>	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No <u>No</u>	
Are the access covers in need of repair?	Yes/No <u>No</u>	
FOG Passing by Interceptor?	Yes/No <u>No</u>	
Does grease interceptor need immediate repair?	Yes/No <u>No</u>	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No <u>No</u>	
Are there signs the grease interceptor may be leaking?	Yes/No <u>No</u>	
Was the grease interceptor pressure washed?	Yes/No <u>No</u>	<u>NO GREASE</u>
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No <u>No</u>	
Is there any leakage under the baffle wall?	Yes/No <u>No</u>	
Was all grease removed from walls, ledges and ridges?	Yes/No <u>No</u>	<u>NO GREASE</u>
Total Gallons pumped out:	<u>1500</u>	
Location where grease was disposed of:	<u>AAA Bumpins Yard</u>	

RR5 GREASE TRAP PUMP

AAA PUMPING SERVICE, INC.

P.O. BOX 12186 ALBUQUERQUE, NM 87195
Ph: (505) 345-3965 Fax: (505) 243-0314

DISPOSAL TRIP MANIFEST
62829

WASTE PRODUCER

PRODUCER'S NAME Fintel RRS PHONE _____ APPROX. GALLONS 150 DATE OF COLLECTION 6/25/18

ADDRESS 4100 Santa Rd WASTE TYPE: SAND OR GRIT GREASE

CITY Rio Rancho STATE NM ZIP _____ OTHER - DESCRIBE _____

RESPON. PERSON [Signature] DATE 6/25/18 WASTE TRANSPORTER _____

TRUCK DRIVERS SIGNATURE [Signature] DATE 6/25/18 PERMIT NO. _____

DISPOSAL SITE DATE STAMP

HAULER'S BILLING INFORMATION

AAA Pumping Service
6-25-18

INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT
<u>34415</u>	<u>6/25/18</u>	

Responsible person signing for Waste Producer certifies that there is nothing hazardous in the materials being pumped. AAA SEPTIC TANK & PUMPING SERVICE, INC. reserves the right to file legal action against the Waste Producer for falsification of information.

Rio Rancho Grease Trap		Comments
Inspection Date <u>6-25-18</u>	Service Date <u>6-25-18</u>	Technician/Company <u>BILLY HARSO</u>
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	<u>15</u> Inches	
Depth of FOG (fats, oils, grease)	<u>3.2</u> Inches	
Depth of Solids	<u>0.5</u> Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No <u>No</u>	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No <u>No</u>	
Are the access covers in need of repair?	Yes/No <u>No</u>	
FOG Passing by Interceptor?	Yes/No <u>No</u>	
Does grease interceptor need immediate repair?	Yes/No <u>No</u>	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No <u>No</u>	
Are there signs the grease interceptor may be leaking?	Yes/No <u>No</u>	
Was the grease interceptor pressure washed?	Yes/No <u>No</u>	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No <u>No</u>	
Is there any leakage under the baffle wall?	Yes/No <u>No</u>	
Was all grease removed from walls, ledges and ridges?	Yes/No <u>No</u>	
Total Gallons pumped out:	<u>50</u>	
Location where grease was disposed of:	<u>AAA Pumping Yard</u>	

D.T.M. # 62889

RRS - TRAP UNDER TABLE
26 Rio Rancho, Grease Removal Device Report

Inspection Date <u>6-25-18</u> Service Date <u>6-25-18</u> Technician/Company <u>BILLY HARRIS / AAA REMPIVING</u>		Comments
Rio Rancho Grease Trap		
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	15 Inches	
Depth of FOG (fats, oils, grease)	1/32 Inches	
Depth of Solids	1/32 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	50	
Location where grease was disposed of:	AAA RemPivng Yard	

D.T.M. # 62829

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RSS- TRAP BY OFFICE
Rio Rancho, Grease Removal Device Report

Inspection Date	Service Date	Technician/Company	Comments
6-25-18	6-25-18	BILLY HARRIS	AAA Pumping
Rio Rancho Grease Trap			
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches		
Depth of FOG (fats, oils, grease)	0 Inches		
Depth of Solids	1/16 Inches		
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No		
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No		
Are the access covers in need of repair?	Yes/No		
FOG Passing by Interceptor?	Yes/No		
Does grease interceptor need immediate repair?	Yes/No		
Are there signs the grease interceptor walls may be deteriorating?	Yes/No		
Are there signs the grease interceptor may be leaking?	Yes/No		
Was the grease interceptor pressure washed?	Yes/No		
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No		
Is there any leakage under the baffle wall?	Yes/No		
Was all grease removed from walls, ledges and ridges?	Yes/No		
Total Gallons pumped out:	20		
Location where grease was disposed of:	AAA		PUMPING YARD

D.T.M. # 62829

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RR5-TRAP FLEM CORNER NW
Rio Rancho, Grease Removal Device Report

Inspection Date <u>6-25-18</u> Service Date <u>6-25-18</u> Technician/Company <u>BILLY HASE</u>		Comments
Rio Rancho Grease Trap		
Depth of Interceptor from Invert at Outlet Tee to Bottom of Outlet Chamber	12 Inches	
Depth of FOG (fats, oils, grease)	0 Inches	
Depth of Solids	3/4 Inches	
Is the accumulated FOG and solids occupying greater than 25% of the interceptor capacity	Yes/No	
Prior to opening is odor from the interceptor present 10' or greater?	Yes/No	
Are the access covers in need of repair?	Yes/No	
FOG Passing by Interceptor?	Yes/No	
Does grease interceptor need immediate repair?	Yes/No	
Are there signs the grease interceptor walls may be deteriorating?	Yes/No	THE BOTTOM MIDDLE OF THE INTERCEPTOR IS BROKEN THROUGH. SUSP TO THE NEXT DAY CENTER THROUGH ROD, ASSING WRS ON TO MANAGEMENT
Are there signs the grease interceptor may be leaking?	Yes/No	
Was the grease interceptor pressure washed?	Yes/No	
Inlet Tee, Baffle Wall Elbow and Outlet Tee pressure washed?	Yes/No	
Is there any leakage under the baffle wall?	Yes/No	
Was all grease removed from walls, ledges and ridges?	Yes/No	
Total Gallons pumped out:	Yes/No	
Location where grease was disposed of:		

ATTACHMENT B

Intel NM TOMP – March 2018 Update



March 28, 2018

Albuquerque Bernalillo County Water Utility Authority
Southside Water Reclamation Facility
4201 2nd Street, SW
Albuquerque, New Mexico 87105
Attn: Merat Zarreii

Re: Toxic Organic (Solvent) Management Plan - Intel Corporation - Permit Number 2021A

Enclosed please find an updated Toxic Organic (Solvent) Management Plan for Intel Corporation as required by Wastewater Discharge Permit Number 2021A, Endorsement TR6. Since it was last submitted as an attachment to Intel's Semi-Annual Report on January 25, 2017, this plan has been modified as follows:

- Section 1: Included 'several computer data centers and various chemical/treatment systems' and excluded 'a large scale computing server farm' in summary of Intel New Mexico's infrastructure.
- Section 3: Specified that all emergency showers are plumbed to Intel's Acid Neutralization Wastewater System prior to discharge.
- Section 4: Specified that bulk liquid chemicals are delivered through double-contained piping to manufacturing areas.

For any additional information or to clarify information submitted, please call Megan Rosebrough at phone number (505) 728-5130, or email at Megan.Rosebrough@intel.com.

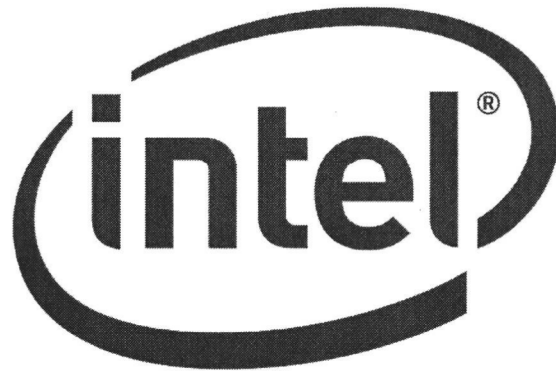
Sincerely,

A handwritten signature in black ink that reads "Mindy Koch". The signature is written in a cursive, flowing style.

Mindy Koch
NM Corporate Services Manager

Enclosure
(EHS016)

**Intel New Mexico
Toxic Organic (Solvent) Management Plan**



Submitted to:

Albuquerque Bernalillo County
Water Utility Authority
Industrial Waste Pretreatment Section

Prepared By:

Intel Corporation
4100 Sara Road
Rio Rancho, New Mexico 87124

2018 Revision

Intel New Mexico
Toxic Organic (Solvent) Management Plan

Table of Contents

1.0 Introduction

2.0 Chemical Use Approval and Control

3.0 Waste Management Practices

4.0 Spill Prevention and Clean Up

Appendix A: Intel Environmental “2020 Goals”

Intel New Mexico Toxic Organic (Solvent) Management Plan

1.0 Introduction

This 2018 update of the Intel New Mexico site Toxic Organic Management Plan (TOMP) is prepared to meet the requirements of Wastewater Industrial Discharge Permit 2021A. Per Endorsement TR6, the Permittee is required to submit a TOMP to the Industrial Waste Engineer every two years, and when changes to the plan occur. The Plan shall identify all toxic organics used onsite, quantities used and stored at the facility, procedures followed to prevent discharge and spills of these materials to the sanitary sewer, and the method of disposal used in place of discharge to the sanitary sewer.

Intel Corporation located at 4100 Sara Road, Rio Rancho, New Mexico 87124 operates a 300 millimeter wafer semiconductor manufacturing facility. The site also operates various chemical labs, modular repair labs, computer labs, several computer data centers, various chemical/treatment systems, and multiple office and support buildings.

Semiconductor manufacturing processes use various organic compounds, generally classified as resists, cleaners/solvents, and etchants. The resists are mixtures of photoactive compounds, resins, and other non-halogenated solvents used to image a circuit pattern onto the Silicon wafer. Cleaning solvents are used to rinse the wafers and clean equipment parts. Common cleaning solvents include Acetone, Isopropyl Alcohol (IPA), Tetramethyl Ammonium Hydroxide (TMAH), Ethylene Glycol (EG), and n-Methyl Pyrrolidone (NMP). Etchants are used to chemically remove unwanted materials from the wafer. The chemical labs use similar chemicals but in limited quantities. Examples of organic etchants used at Intel Rio Rancho include methyl sulfonic acid (MSA), sulfolane, and diethylene glycol monoethyl ether (DGMEE).

The U.S. EPA has promulgated wastewater effluent guidelines for semiconductor manufacturing in 40 CFR 469 Subpart A, which includes a list of Total Toxic Organics (TTOs) for the semiconductor industry. No TTOs listed in 40 CFR 469 Subpart A are used in Intel's manufacturing process in Rio Rancho.

2.0 Chemical Use Approval and Control

Intel maintains a chemical approval process that serves to prevent unauthorized introduction of chemicals at the NM site, thereby keeping them out of wastewater discharged to the Albuquerque Bernalillo County Water Utility Authority (ABCWUA). Every chemical used on site, including those used in the manufacturing process, must be approved by a site Environmental Engineer and Industrial Hygienist. Part of the approval process includes a review of the chemical constituents against various lists of toxic and hazardous chemicals regulated by the EPA, the New Mexico Environment Department (NMED), ABCWUA, and other applicable agencies.

In addition, for process technologies transferred to New Mexico from the process development site are analyzed and vetted based on Intel's "Design for Environment"

Intel New Mexico Toxic Organic (Solvent) Management Plan

(DfE) criteria. This process aims to minimize waste, emissions, water, and energy use with each new process technology. Intel has also implemented a chemical “Green Screen” process that searches for the best environmental alternative for each process chemical with consideration to the process requirements, which Intel will use for 100% of new chemicals and gases used in its process by 2020 (See Appendix A for Intel’s 2020 Environmental Goals). The program aims to use chemicals that have a reduced “cradle to grave” environmental impact during their manufacture, use, and disposal, thus reducing the amount of hazardous wastes generated from the manufacturing process at the source. The screening process is completed before a process technology is finalized and transferred to any of Intel’s High Volume Manufacturing (HVM) sites, including New Mexico.

For non-technology transfer process chemicals, such as pilot chemicals or facilities/maintenance chemicals, a request must be completed and approved at the site level before the new chemical can be brought on site. Intel's Purchasing Department verifies that all chemicals have been approved prior to ordering any chemicals.

Review of new chemicals includes information on the chemical constituents, concentrations, use locations, use type, and material Safety Data Sheet (SDS) content. This information is used to determine waste management, treatment (if applicable), personal protective equipment, and disposal methods.

3.0 Waste Management Practices

Intel's waste/wastewater utilities and collection systems are constructed to ensure proper segregation and treatment of waste and wastewaters. No open trenches or piping cross-connections are allowed between the systems. There are no open floor drains in manufacturing areas except for those directly servicing emergency showers, which are plumbed to the Acid Neutralization Wastewater System prior to discharge. Separate piping and collection systems have been constructed for the following liquid waste streams:

1. Corrosive wastewater
2. Fluoride-bearing wastewater
3. Ammonium Fluoride-bearing wastewater
4. Copper-bearing wastewater
5. General Solvent Waste (GSW)
6. Corrosive Solvent Waste (CSW)
7. Spin-On-Glass Solvent Waste (SOG)

The first four waste streams listed above are treated prior to being discharged to the sanitary sewer. The last three waste streams (5-7) are collected separately in tanks and shipped offsite to an EPA permitted Treatment, Storage, and Disposal Facility (TSDF) via a certified transporter.

All manufacturing and support equipment is evaluated prior to installation to determine the volume and nature of liquid waste, if any. Installations are then made

Intel New Mexico Toxic Organic (Solvent) Management Plan

with drain system hookups to the appropriate treatment or collection system(s) to ensure proper waste segregation. The newly-installed equipment and drain connections are inspected and documented through a formal Equipment Sign-Off process prior to use.

Necessary wastewater treatment systems are installed with each process technology to ensure compliance with all applicable permits and regulations. Intel New Mexico has a robust pretreatment program that treats for wastewater ammonia, fluorides, metals, and elementary neutralization prior to discharge to the POTW. Many of the organic solvents used in the process drain to segregated collection systems and shipped to an approved TSDf for treatment & disposal. This ensures that all wastewater leaving the New Mexico site is well within applicable limits, and impact to the POTW is minimized.

Some liquid organic wastes, such as specialty oils and viscous organic chemicals, are collected in 55-gallon drums. These drums are shipped off-site to an EPA permitted TSDf. All storage facilities have secondary containment systems and are inspected on a weekly basis.

Some organic chemicals that are present in some manufacturing process steps do enter the wastewater system. For example, diethylene glycol monoethyl ether (DGMEE) and sulfolane from the wafer-rinsing baths are drained to the Acid Neutralization Wastewater system. Treatability studies of these and all Intel wastewater pollutants have been completed prior to implementing any new process technology to ensure no issues arise with discharge permit compliance, POTW process upset, or other pertinent concerns.

4.0 Spill Prevention and Clean Up

Bulk liquid chemicals are delivered through double-contained piping to manufacturing areas. There is no underground chemical supply piping at Intel. There are multiple alarmed leak detection systems for immediate notification of spills or releases. Bottled chemicals are transported in carts designed to contain any spill.

Intel maintains Full Time Responder Teams (FRST) and Emergency Response Teams (ERT) assigned to all areas of the site, including manufacturing, support, and office areas. FRST personnel are onsite 24-hours per day and respond within minutes to any spill or emergency situation. Supporting ERT personnel are subject matter experts trained to respond to emergencies and knowledgeable on the hazards in the areas they work.

Wastes generated from all chemical spills, including organic spills, are collected and disposed of in accordance with all applicable regulations. Additionally, secondary containments in chemical docks and loading areas are designed to contain any chemical spill and prevent chemicals from entering the storm water or sanitary sewer systems. Industrial areas that commonly see chemical traffic are sealed with a

Intel New Mexico

Toxic Organic (Solvent) Management Plan

Chemical Resistant Coating (CRC) to contain all chemical spills and prevent degradation of the outside surface or inside flooring.

Appendix A: Intel Environmental “2020 Goals”, 2016 Corporate Responsibility Report

GOALS FOR 2017 AND BEYOND

Environmental Sustainability

Reduce direct greenhouse gas (GHG) emissions by 10% on a per unit basis by 2020 from 2010 levels.

Grow the installation and use of on-site alternative energy to three times our 2015 levels by 2020.

Continue 100% green power in our U.S. operations and increase alternative energy use for our international operations from 2015 to 2020.

Achieve cumulative energy savings of 4 billion kWh from 2012 to 2020.

Increase the energy efficiency of notebook computers and data center products 25x by 2020 from 2010 levels.¹

Implement an enhanced green chemistry screening and selection process for 100% of new chemicals and gases by 2020.

Reduce water use on a per unit basis below 2010 level by 2020.

Achieve zero hazardous waste to landfill by 2020.

Achieve a 90% non-hazardous waste recycling rate by 2020.

Design all new buildings to a minimum LEED* Gold certification between 2015 and 2020.

<https://www.intel.com/content/www/us/en/corporate-responsibility/corporate-responsibility.html>

<https://www.intel.com/content/www/us/en/environment/water-restoration.html>

ATTACHMENT C

Monthly Indium Gallium Sampling Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Denver

4955 Yarrow Street

Arvada, CO 80002

Tel: (303)736-0100

TestAmerica Job ID: 280-106892-1

Client Project/Site: Intel - Monthly Gallium

Revision: 1

For:

Intel Corporation

4100 Sara Road

Mail Stop RR5-491

Rio Rancho, New Mexico 87124

Attn: Megan Rosebrough



Authorized for release by:

3/7/2018 5:38:04 PM

DiLea Bindel, Project Manager I

(303)736-0173

dilea.bindel@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

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Table of Contents

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Case Narrative

Client: Intel Corporation
Project/Site: Intel - Monthly Gallium

TestAmerica Job ID: 280-106892-1

Job ID: 280-106892-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: Intel Corporation

Project: Intel - Monthly Gallium

Report Number: 280-106892-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The sample was received on 3/1/2018 9:50 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8° C.

The requested 6010B Gallium was performed by McCampbell Analytical. The analytical report can be found at the back of this report.

Definitions/Glossary

Client: Intel Corporation
Project/Site: Intel - Monthly Gallium

TestAmerica Job ID: 280-106892-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Intel Corporation
Project/Site: Intel - Monthly Gallium

TestAmerica Job ID: 280-106892-1

Client Sample ID: FEB-GAL(2)

Lab Sample ID: 280-106892-1

No Detections.

1

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This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Method Summary

Client: Intel Corporation
Project/Site: Intel - Monthly Gallium

TestAmerica Job ID: 280-106892-1

Method	Method Description	Protocol	Laboratory
6010B Gallium	SW846 6010B	NONE	

Protocol References:

NONE = NONE

Laboratory References:

= McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565



Sample Summary

Client: Intel Corporation
Project/Site: Intel - Monthly Gallium

TestAmerica Job ID: 280-106892-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-106892-1	FEB-GAL(2)	Water	02/17/18 11:00	03/01/18 09:50

- 1
- 2
- 3
- 4
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McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1803270

Report Created for: TestAmerica Denver

4955 Yarrow Street
Arvada, CO 80002

Project Contact: DiLea R Bindel

Project P.O.:

Project: 28003759; Semi Annual Waste Water

Project Received: 03/06/2018

Analytical Report reviewed & approved for release on 03/07/2018 by:

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: TestAmerica Denver
Project: 28003759; Semi Annual Waste Water
WorkOrder: 1803270

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Analytical Report

Client: TestAmerica Denver
Date Received: 3/6/18 10:05
Date Prepared: 3/6/18
Project: 28003759; Semi Annual Waste Water

WorkOrder: 1803270
Extraction Method: SW3050B
Analytical Method: SW6010B
Unit: µg/L

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
FEB-GAL (2) (280-106892-1)	1803270-001A	Water	02/17/2018 11:00	ICP-OES 15	154134

Analytes	Result	MDL	RL	DF	Date Analyzed
Gallium	ND	3.4	50	1	03/07/2018 12:48

Surrogates	REC (%)	Limits
Tb	105	70-130

Analyst(s): DB



Quality Control Report

Client:	TestAmerica Denver	WorkOrder:	1803270
Date Prepared:	3/5/18	BatchID:	154134
Date Analyzed:	3/7/18	Extraction Method:	SW3050B
Instrument:	ICP-OES	Analytical Method:	SW6010B
Matrix:	Water	Unit:	µg/L
Project:	28003759; Semi Annual Waste Water	Sample ID:	MB/LCS-154134 1803124-002AMS/MSD

QC SUMMARY REPORT FOR SW6010B

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Gallium	ND	988	3.4	50	1000	-	99	85-115
Surrogate Recovery								
Tb	790	773			750	105	103	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Gallium	1000	972	1000	ND	100	97	70-130	2.81	20
Surrogate Recovery									
Tb	785	787	750		105	105	70-130	0	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Gallium	ND<250	ND	-	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1803270

ClientCode: TADC

- WaterTrax
 WriteOn
 EDF
 Excel
 Email
 HardCopy
 ThirdParty
 J-flag
 Detection Summary
 Dry-Weight

Report to:

DiLea R Bindel
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
303-736-0100 FAX: 303-431-7171

Email: dilea.bindel@testamericainc.com
cc/3rd Party:
PO:
Project: 28003759; Semi Annual Waste Water

Bill to:

Accounts Payable
TestAmerica
4101 Shuffel Street NW
North Canton, OH 44720
AccountsPayable@testamericainc.com

Requested TAT: 1 day;

Date Received: 03/06/2018

Date Logged: 03/06/2018

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)														
					1	2	3	4	5	6	7	8	9	10	11	12			
1803270-001	FEB-GAL (2) (280-106892-1)	Water	2/17/2018 11:00	<input type="checkbox"/>	A														

Test Legend:

1	METALS_6010_TTLC_W	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Nancy Palacios

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.





WORK ORDER SUMMARY

Client Name: TESTAMERICA DENVER

Project: 28003759; Semi Annual Waste Water

Work Order: 1803270

Client Contact: DiLea R Bindel

QC Level: LEVEL 2

Contact's Email: dilea.bindel@testamericainc.com

Comments:

Date Logged: 3/6/2018

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1803270-001A	FEB-GAL (2) (280-106892-1)	Water	SW6010B (Metals) <Gallium>	2	500mL HDPE w/ HNO3	<input type="checkbox"/>	2/17/2018 11:00	1 day	None	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1803270



Client Information (Sub Contract Lab) Client Contact: Bindel, DiLea R Shipping/Receiving: dilea.bindel@testamericainc.com Company: McCampbell Analytical, Inc. Address: 1534 Willow Pass Road, Pittsburg, CA, 94565 Phone: [Blank] Email: [Blank]		Lab PM: Bindel, DiLea R E-Mail: dilea.bindel@testamericainc.com Carrier Tracking No(s): 280-429133.1 State of Origin: New Mexico Page: Page 1 of 1 Job #: 280-106892-1	
Due Date Requested: 3/13/2018 TAT Requested (days): 1 DAY PER CLIENT.		Analysis Requested Accreditations Required (See note): M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Ice V - MCAA W - pH 4-5 Z - other (specify)	
Project #: 28003759 SOW#: [Blank]		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: [Blank]	
Sample Identification - Client ID (Lab ID) FEB-GAL(2) (280-106892-1)		Special Instructions/Note: Total Number of containers: 2	
Sample Date: 2/17/18 Sample Time: 11:00 Mountain Matrix: Water	Sample Type (C=Comp, G=grab) Preservation Code: [Blank]	Field Filtered Sample (Yes or No): X Perform MS/MSD (Yes or No): X SUB (Gallium - McCampbell Analytical, Inc.) 6010B Gallium	Special Instructions/Note: Total Number of containers: 2
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.			
Possible Hazard Identification <input type="checkbox"/> Unconfirmed <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2	
Empty Kit Relinquished by: [Signature]		Date: 3/2/18 1:50	
Relinquished by: [Signature]		Date: 3/2/18 1:50	
Relinquished by: [Signature]		Date: 3/2/18 1:50	
Custody Seals Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>		Custody Seal No.: 4241 3164 5149	
* PER CLIENT; CHANGED TAT TO 1-DAY RUSH.			



Sample Receipt Checklist

Client Name: **TestAmerica Denver**
Project: **28003759; Semi Annual Waste Water**

WorkOrder №: **1803270** Matrix: Water
Carrier: FedEx

Date and Time Received: **3/6/2018 10:05**
Date Logged: **3/6/2018**
Received by: **Nancy Palacios**
Logged by: **Nancy Palacios**

Chain of Custody (COC) Information

- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Sample IDs noted by Client on COC? Yes No
- Date and Time of collection noted by Client on COC? Yes No
- Sampler's name noted on COC? Yes No
- COC agrees with Quote? Yes No NA

Sample Receipt Information

- Custody seals intact on shipping container/cooler? Yes No NA
- Shipping container/cooler in good condition? Yes No
- Samples in proper containers/bottles? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

- All samples received within holding time? Yes No NA
- Samples Received on Ice? Yes No

(Ice Type: WET ICE)

- Sample/Temp Blank temperature Temp: 1.4°C NA
- Water - VOA vials have zero headspace / no bubbles? Yes No NA
- Sample labels checked for correct preservation? Yes No
- pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes No NA

UCMR Samples:

- pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)? Yes No NA
- Free Chlorine tested and acceptable upon receipt (<0.1mg/L)? Yes No NA

Comments:



Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-106892-1

Login Number: 106892

List Number: 1

Creator: Gomez, Alyssa I

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Denver

4955 Yarrow Street

Arvada, CO 80002

Tel: (303)736-0100

TestAmerica Job ID: 280-107431-1

Client Project/Site: Monthly Gallium/Indium

Revision: 1

For:

Intel Corporation

4100 Sara Road

Mail Stop RR5-491

Rio Rancho, New Mexico 87124

Attn: Megan Rosebrough



Authorized for release by:

4/4/2018 12:41:30 PM

DiLea Bindel, Project Manager I

(303)736-0173

dilea.bindel@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-107431-1

Job ID: 280-107431-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: Intel Corporation

Project: Monthly Gallium/Indium

Report Number: 280-107431-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

REVISION - 4/4/18

The previous report only included the McCampbell sample receipt summary. This report has been revised to include the final results for the 6010B Gallium data.

RECEIPT

The samples were received on 3/15/2018 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.7° C.

The requested 6010B Gallium was performed by McCampbell Analytical. The analytical report can be found at the back of this report.

TOTAL METALS (ICP)

Sample MAR-IND (280-107431-2) was analyzed for Total Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared and analyzed on 03/20/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-107431-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-107431-1

Client Sample ID: MAR-GAL

Lab Sample ID: 280-107431-1

No Detections.

Client Sample ID: MAR-IND

Lab Sample ID: 280-107431-2

No Detections.

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This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Method Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-107431-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL CF
6010B Gallium	SW846 6010B	NONE	

Protocol References:

NONE = NONE

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

= McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

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Sample Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-107431-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-107431-1	MAR-GAL	Water	03/14/18 11:00	03/15/18 09:15
280-107431-2	MAR-IND	Water	03/14/18 11:00	03/15/18 09:15

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Client Sample Results

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-107431-1

Method: 6010C - Metals (ICP)

Client Sample ID: MAR-IND
Date Collected: 03/14/18 11:00
Date Received: 03/15/18 09:15

Lab Sample ID: 280-107431-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50		mg/L		03/20/18 07:56	03/20/18 18:01	1

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QC Sample Results

Client: Intel Corporation
 Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-107431-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 310-197237/1-A
Matrix: Water
Analysis Batch: 197459

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 197237

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50		mg/L		03/20/18 07:56	03/20/18 17:51	1

Lab Sample ID: LCS 310-197237/2-A
Matrix: Water
Analysis Batch: 197459

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 197237

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Indium	2.00	1.94		mg/L		97	80 - 120

Lab Sample ID: 280-107431-2 MS
Matrix: Water
Analysis Batch: 197459

Client Sample ID: MAR-IND
Prep Type: Total/NA
Prep Batch: 197237

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Indium	ND		2.00	1.90		mg/L		94	75 - 125

Lab Sample ID: 280-107431-2 MSD
Matrix: Water
Analysis Batch: 197459

Client Sample ID: MAR-IND
Prep Type: Total/NA
Prep Batch: 197237

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Indium	ND		2.00	1.93		mg/L		95	75 - 125	2	20

QC Association Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-107431-1

Metals

Prep Batch: 197237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-107431-2	MAR-IND	Total/NA	Water	3010A	
MB 310-197237/1-A	Method Blank	Total/NA	Water	3010A	
LCS 310-197237/2-A	Lab Control Sample	Total/NA	Water	3010A	
280-107431-2 MS	MAR-IND	Total/NA	Water	3010A	
280-107431-2 MSD	MAR-IND	Total/NA	Water	3010A	

Analysis Batch: 197459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-107431-2	MAR-IND	Total/NA	Water	6010C	197237
MB 310-197237/1-A	Method Blank	Total/NA	Water	6010C	197237
LCS 310-197237/2-A	Lab Control Sample	Total/NA	Water	6010C	197237
280-107431-2 MS	MAR-IND	Total/NA	Water	6010C	197237
280-107431-2 MSD	MAR-IND	Total/NA	Water	6010C	197237

Lab Chronicle

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-107431-1

Client Sample ID: MAR-IND

Date Collected: 03/14/18 11:00

Date Received: 03/15/18 09:15

Lab Sample ID: 280-107431-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	197237	03/20/18 07:56	JNR	TAL CF
Total/NA	Analysis	6010C		1			197459	03/20/18 18:01	JIS	TAL CF

Laboratory References:

= McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1803G45

Report Created for: TestAmerica Denver

4955 Yarrow Street
Arvada, CO 80002

Project Contact: DiLea R Bindel

Project P.O.:

Project: 28003759; Semi Annual Waste Water

Project Received: 03/28/2018

Analytical Report reviewed & approved for release on 04/04/2018 by:

A handwritten signature in black ink that reads "Yen Cao".

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: TestAmerica Denver
Project: 28003759; Semi Annual Waste Water
WorkOrder: 1803G45

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Analytical Report

Client: TestAmerica Denver
Date Received: 3/28/18 10:19
Date Prepared: 3/28/18
Project: 28003759; Semi Annual Waste Water

WorkOrder: 1803G45
Extraction Method: E200.7
Analytical Method: E200.7
Unit: µg/L

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MAR-GAL(280-107431-1)	1803G45-001A	Water	03/14/2018 11:00	ICP-OES 11	155546
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Gallium	ND	3.4	50	1	03/29/2018 12:51
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
Terbium	102	70-130			03/29/2018 12:51
<u>Analyst(s):</u>	ND				





Quality Control Report

Client:	TestAmerica Denver	WorkOrder:	1803G45
Date Prepared:	3/28/18	BatchID:	155546
Date Analyzed:	3/29/18	Extraction Method:	E200.7
Instrument:	ICP-OES	Analytical Method:	E200.7
Matrix:	Water	Unit:	µg/L
Project:	28003759; Semi Annual Waste Water	Sample ID:	MB/LCS-155546 1803G45-001AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Gallium	ND	985	3.4	50	1000	-	98	85-115
Surrogate Recovery								
Terbium	760	774			750	101	103	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Gallium	1060	1040	1000	ND	107	104	70-130	2.04	20
Surrogate Recovery									
Terbium	788	773	750		105	103	70-130	1.89	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Gallium	ND<250	ND	-	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1803G45

ClientCode: TADC

- WaterTrax
 WriteOn
 EDF
 Excel
 Email
 HardCopy
 ThirdParty
 J-flag
 Detection Summary
 Dry-Weight

Report to:

DiLea R Bindel
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
303-736-0100 FAX: 303-431-7171

Email: dilea.bindel@testamericainc.com
cc/3rd Party: dilea.bindle@testamericainc.com;
PO:
Project: 28003759; Semi Annual Waste Water

Bill to:

Accounts Payable
TestAmerica
4101 Shuffel Street NW
North Canton, OH 44720
AccountsPayable@testamericainc.com

Requested TAT: 5 days;

Date Received: 03/28/2018

Date Logged: 03/28/2018

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)													
					1	2	3	4	5	6	7	8	9	10	11	12		
1803G45-001	MAR-GAL(280-107431-1)	Water	3/14/2018 11:00	<input type="checkbox"/>	A													

Test Legend:

1	METALS_TTLC_W	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Keylen Juarez

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.





WORK ORDER SUMMARY

Client Name: TESTAMERICA DENVER

Project: 28003759; Semi Annual Waste Water

Work Order: 1803G45

Client Contact: DiLea R Bindel

QC Level: LEVEL 2

Contact's Email: dilea.bindel@testamericainc.com

Comments:

Date Logged: 3/28/2018

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1803G45-001A	MAR-GAL(280-107431-1)	Water	E200.7 (Metals) <Gallium>	1	500mL HDPE w/ HNO3	<input type="checkbox"/>	3/14/2018 11:00	5 days	Present	<input type="checkbox"/>	
				1	500mL HDPE w/ HNO3	<input type="checkbox"/>			Present	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

#1803645
 Chain of Custody Record



Client Information (Sub Contract Lab) Client Contact: Bindel, DiLea R Shipping/Receiving: dilea.bindel@testamericainc.com Company: McCampbell Analytical, Inc. Address: 1534 Willow Pass Road, City: Pittsburg State, Zip: CA, 94565 Phone: Email: Project Name: Semi Annual Waste Water Site:		Lab PM: Bindel, DiLea R E-Mail: dilea.bindel@testamericainc.com Carrier Tracking No(s): State of Origin: New Mexico Job #: 280-107431-1 Accreditations Required (See note):		COC No: 180-323177.1 Page: Page 1 of 1 Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Due Date Requested: 3/27/2018 TAT Requested (days): PO #: WO #: Project #: 28003759 SSOW#:		Analysis Requested Total Number of containers: 2			
Sample Date: 3/14/18 Sample Time: 11:00 Mountain Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, AA=Air) Matrix: Water		Sample Type (C=Comp, G=grab) Sample Time: 11:00 Mountain		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) SUB (Gallium - McCampbell Analytical, Inc./ 6010B) Gallium	
Sample Identification - Client ID (Lab ID) MAR-GAL (280-107431-1)		Preservation Code:		Special Instructions/Note: 090	
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.					
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 Special Instructions/QC Requirements:					
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by:		Date/Time:		Received by:	
Relinquished by:		Date/Time:		Received by:	
Relinquished by:		Date/Time:		Received by:	
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	
Δ Yes Δ No		Δ Yes Δ No		Δ Yes Δ No	



Sample Receipt Checklist

Client Name: **TestAmerica Denver**
Project: **28003759; Semi Annual Waste Water**

WorkOrder №: **1803G45** Matrix: Water
Carrier: FedEx

Date and Time Received **3/28/2018 10:19**
Date Logged: **3/28/2018**
Received by: Keylen Juarez
Logged by: Keylen Juarez

Chain of Custody (COC) Information

- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Sample IDs noted by Client on COC? Yes No
- Date and Time of collection noted by Client on COC? Yes No
- Sampler's name noted on COC? Yes No
- COC agrees with Quote? Yes No NA

Sample Receipt Information

- Custody seals intact on shipping container/cooler? Yes No NA
- Shipping container/cooler in good condition? Yes No
- Samples in proper containers/bottles? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

- All samples received within holding time? Yes No NA
- Samples Received on Ice? Yes No

(Ice Type: WET ICE)

- Sample/Temp Blank temperature Temp: 0.09°C NA
- Water - VOA vials have zero headspace / no bubbles? Yes No NA
- Sample labels checked for correct preservation? Yes No
- pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes No NA

UCMR Samples:

- pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)? Yes No NA
- Free Chlorine tested and acceptable upon receipt (<0.1mg/L)? Yes No NA

Comments:

Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-107431-1

Login Number: 107431

List Number: 1

Creator: Burtness, Benjamin W

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-107431-1

Login Number: 107431

List Number: 2

Creator: Homolar, Dana J

List Source: TestAmerica Cedar Falls

List Creation: 03/19/18 09:12 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	



TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record



Client Information: Intel Corporation
 Client Contact: Jeff Rudnik
 Phone: [Blank]
 E-Mail: dilea.bindel@testamericainc.com
 Lab P.M.: Bindel, Dilea R.
 Carrier Tracking (N/A): [Blank]
 COC No: [Blank]
 Page: [Blank] of [Blank]
 Job # [Blank]

Address: 4100 Sara Road Mail Stop RR5-465
 City: Rio Rancho
 State, Zip: NM, 87124
 Phone: 505-893-1613(Tel)
 Email: jeffrey.rudnik@intel.com
 Project Name: Monthly Gallium/Indium
 Site: [Blank]
 Due Date Requested: [Blank]
 TAT Requested (days): 10 Business Days
 PO #: [Blank]
 Purchase Order Requested: [Blank]
 WOC #: [Blank]
 Project #: 28003759
 SSOV#: [Blank]

Sample Identification	Sample Date	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=soil, O=ore, etc.)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Analysis Requested	Total Number of containers	Preservation Codes:
				D	D	D	D			
MAR-GAL	3/14/18 11AM	C	W	X	D	D	D		500 ml	Special Instructions/Note: 6010B Gallium sub to McCampbell Analytical
MAR-IND	3/14/18 11AM	C	W	X	D	D	D		250 ml	6010C Indium sub to TA-Cedar Falls



Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify) [Blank]
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return To Client Disposal By Lab Archive For [Blank] Months
 Special Instructions/QC Requirements: [Blank]

Empty Kit Relinquished by: [Blank] Date: [Blank] Time: [Blank] Method of Shipment: [Blank]

Relinquished by: Ken Lieber Date/Time: 3-14-18 1 PM Company: TA-DEW Received by: [Signature] Date/Time: 3/15/18 0915 Company: TA-DEW

Relinquished by: [Blank] Date/Time: [Blank] Company: [Blank] Received by: [Blank] Date/Time: [Blank] Company: [Blank]

Custody Seals Intact: Yes No Custody Seal No.: 467814 Cooler Temperature(s) °C and Other Remarks: 0.8°C-0.1 °C #8 Transferred BB 3/15/18



Cooler/Sample Receipt and Temperature Log Form

Client Information	
Client: TA Denver	
City/State: Arvada CO	Project: Semi Annual wastewater
Receipt Information	
Date/Time Received: 3-17-18 930	Received By: KP
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx Sat <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> TA Courier <input type="checkbox"/> TA Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other:	
Condition of Cooler/Containers	
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes: Cooler ID:
Multiple Coolers?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: Cooler # ___ of ___
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: Which VOA samples are in cooler? ↓
Temperature Record	
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: <input type="checkbox"/> NONE	
Thermometer ID: H	Correction Factor (°C): 0.0
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature	
Uncorrected Temp (°C): 1.0	Corrected Temp (°C): 1.0
• Sample Container Temperature	
Container type(s) used:	
Uncorrected Temp (°C):	Corrected Temp (°C):
Exceptions Noted	
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No	
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No	
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No	
NOTE: If yes, contact PM before proceeding. If no, proceed with login	
Additional Comments	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Denver

4955 Yarrow Street

Arvada, CO 80002

Tel: (303)736-0100

TestAmerica Job ID: 280-110165-1

Client Project/Site: Monthly Gallium/ Indium

For:

Intel Corporation

4100 Sara Road

Mail Stop RR5-491

Rio Rancho, New Mexico 87124

Attn: Megan Rosebrough



Authorized for release by:

6/7/2018 3:14:13 PM

DiLea Bindel, Project Manager I

(303)736-0173

dilea.bindel@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Table of Contents

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Case Narrative

Client: Intel Corporation
Project/Site: Monthly Gallium/ Indium

TestAmerica Job ID: 280-110165-1

Job ID: 280-110165-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: Intel Corporation

Project: Monthly Gallium/ Indium

Report Number: 280-110165-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The sample was received on 5/24/2018 9:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3° C.

The requested 6010B Gallium was performed by McCampbell Analytical. The analytical report can be found at the back of this report.

TOTAL METALS (ICP)

Sample MAY-052318 (280-110165-1) was analyzed for Total Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/29/2018 and analyzed on 06/06/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Intel Corporation
Project/Site: Monthly Gallium/ Indium

TestAmerica Job ID: 280-110165-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/ Indium

TestAmerica Job ID: 280-110165-1

Client Sample ID: MAY-052318

Lab Sample ID: 280-110165-1

No Detections.

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This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Method Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/ Indium

TestAmerica Job ID: 280-110165-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL CF
6010B	SW846 6010B	SW846	
3010A	Preparation, Total Metals	SW846	TAL CF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

= McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

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Sample Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/ Indium

TestAmerica Job ID: 280-110165-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-110165-1	MAY-052318	Water	05/23/18 09:00	05/24/18 09:30

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Client Sample Results

Client: Intel Corporation
Project/Site: Monthly Gallium/ Indium

TestAmerica Job ID: 280-110165-1

Method: 6010C - Metals (ICP)

Client Sample ID: MAY-052318
Date Collected: 05/23/18 09:00
Date Received: 05/24/18 09:30

Lab Sample ID: 280-110165-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50	0.026	mg/L		05/29/18 14:56	06/06/18 01:19	1

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QC Sample Results

Client: Intel Corporation
 Project/Site: Monthly Gallium/ Indium

TestAmerica Job ID: 280-110165-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 310-204907/1-A
 Matrix: Water
 Analysis Batch: 205739

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 204907

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50	0.026	mg/L		05/29/18 14:56	06/06/18 00:57	1

Lab Sample ID: LCS 310-204907/2-A
 Matrix: Water
 Analysis Batch: 205739

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 204907

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Indium	2.00	2.03		mg/L		101	80 - 120

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QC Association Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/ Indium

TestAmerica Job ID: 280-110165-1

Metals

Prep Batch: 204907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-110165-1	MAY-052318	Total/NA	Water	3010A	
MB 310-204907/1-A	Method Blank	Total/NA	Water	3010A	
LCS 310-204907/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 205739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-110165-1	MAY-052318	Total/NA	Water	6010C	204907
MB 310-204907/1-A	Method Blank	Total/NA	Water	6010C	204907
LCS 310-204907/2-A	Lab Control Sample	Total/NA	Water	6010C	204907

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Lab Chronicle

Client: Intel Corporation
Project/Site: Monthly Gallium/ Indium

TestAmerica Job ID: 280-110165-1

Client Sample ID: MAY-052318

Lab Sample ID: 280-110165-1

Date Collected: 05/23/18 09:00

Matrix: Water

Date Received: 05/24/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	204907	05/29/18 14:56	JNR	TAL CF
Total/NA	Analysis	6010C		1			205739	06/06/18 01:19	JIS	TAL CF

Laboratory References:

= McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1805G29

Report Created for: TestAmerica Denver

4955 Yarrow Street
Arvada, CO 80002

Project Contact: DiLea R Bindel

Project P.O.: 280-110165-1

Project: 28003759; Semi Annual Waste Water

Project Received: 05/30/2018

Analytical Report reviewed & approved for release on 06/06/2018 by:

Yen Cao

Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: TestAmerica Denver
Project: 28003759; Semi Annual Waste Water
WorkOrder: 1805G29

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Analytical Report

Client: TestAmerica Denver
Date Received: 5/30/18 10:21
Date Prepared: 5/30/18
Project: 28003759; Semi Annual Waste Water

WorkOrder: 1805G29
Extraction Method: E200.7
Analytical Method: E200.7
Unit: µg/L

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MAY-052318 (280-110165-1)	1805G29-001A	Water	05/23/2018 09:00	ICP-OES 37	159056
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Gallium	ND	3.4	50	1	05/31/2018 10:58
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
Terbium	105	70-130			05/31/2018 10:58
<u>Analyst(s):</u> DB					





Quality Control Report

Client:	TestAmerica Denver	WorkOrder:	1805G29
Date Prepared:	5/30/18	BatchID:	159056
Date Analyzed:	5/31/18	Extraction Method:	E200.7
Instrument:	ICP-OES	Analytical Method:	E200.7
Matrix:	Water	Unit:	µg/L
Project:	28003759; Semi Annual Waste Water	Sample ID:	MB/LCS-159056 1805G29-001AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Gallium	ND	977	3.4	50	1000	-	98	85-115
Surrogate Recovery								
Terbium	795	799			750	106	107	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Gallium	1020	1000	1000	ND	102	101	70-130	1.69	20
Surrogate Recovery									
Terbium	778	780	750		104	104	70-130	0	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Gallium	ND<250	ND	-	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.



1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1805G29

ClientCode: TADC

- WaterTrax
 WriteOn
 EDF
 Excel
 EQuIS
 Email
 HardCopy
 ThirdParty
 J-flag
 Detection Summary
 Dry-Weight

Report to:

DiLea R Bindel
 TestAmerica Denver
 4955 Yarrow Street
 Arvada, CO 80002
 303-736-0100 FAX: 303-431-7171

Email: dilea.bindel@testamericainc.com
 cc/3rd Party:
 PO: 280-110165-1
 Project: 28003759; Semi Annual Waste Water

Bill to:

Accounts Payable
 TestAmerica
 4101 Shuffel Street NW
 North Canton, OH 44720
 AccountsPayable@testamericainc.com

Requested TAT: 5 days;

Date Received: 05/30/2018

Date Logged: 05/30/2018

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)													
					1	2	3	4	5	6	7	8	9	10	11	12		
1805G29-001	MAY-052318 (280-110165-1)	Water	5/23/2018 09:00	<input type="checkbox"/>	A													

Test Legend:

1	METALS_TTLC_W	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.





WORK ORDER SUMMARY

Client Name: TESTAMERICA DENVER

Project: 28003759; Semi Annual Waste Water

Work Order: 1805G29

Client Contact: DiLea R Bindel

QC Level: LEVEL 2

Contact's Email: dilea.bindel@testamericainc.com

Comments:

Date Logged: 5/30/2018

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1805G29-001A	MAY-052318 (280-110165-1)	Water	E200.7 (Metals) <Gallium>	2	500mL HDPE w/ HNO3	<input type="checkbox"/>	5/23/2018 9:00	5 days	None	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



Sample Receipt Checklist

Client Name: **TestAmerica Denver**
Project: **28003759; Semi Annual Waste Water**

Date and Time Received **5/30/2018 10:21**

Date Logged: **5/30/2018**

Received by: **Jena Alfaro**

WorkOrder No: **1805G29** Matrix:

Logged by: **Jena Alfaro**

Carrier: **FedEx**

Chain of Custody (COC) Information

- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Sample IDs noted by Client on COC? Yes No
- Date and Time of collection noted by Client on COC? Yes No
- Sampler's name noted on COC? Yes No
- COC agrees with Quote? Yes No NA

Sample Receipt Information

- Custody seals intact on shipping container/cooler? Yes No NA
- Shipping container/cooler in good condition? Yes No
- Samples in proper containers/bottles? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

- All samples received within holding time? Yes No NA
- Samples Received on Ice? Yes No

(Ice Type: WET ICE)

- Sample/Temp Blank temperature Temp: 4.4°C NA
- Water - VOA vials have zero headspace / no bubbles? Yes No NA
- Sample labels checked for correct preservation? Yes No
- pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes No NA

UCMR Samples:

- pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)? Yes No NA
- Free Chlorine tested and acceptable upon receipt (<0.1mg/L)? Yes No NA

Comments:

Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-110165-1

Login Number: 110165

List Number: 1

Creator: Rhoades, Joseph P

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-110165-1

Login Number: 110165

List Number: 2

Creator: Homolar, Dana J

List Source: TestAmerica Cedar Falls

List Creation: 05/29/18 11:22 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Chain of Custody Record

Client Information Client Contact: Carrie Weitz / Megan Rosebrough Company: Intel Corporation Address: 4100 Sara Road Mail Stop RR5-465 City: Rio Rancho State, Zip: NM, 87124 Phone: (505) 794-4100 (Tel) Email: carrie.a.weitz@intel.com Project Name: Monthly Gallium/Indium Site:		Sampler: Bindel, DiLea R. Lab PM: Bindel, DiLea R. E-Mail: dilea.bindel@testamericainc.com Carrier Tracking No(s): Page of Job #	
Due Date Requested: TAT Requested (days): 10 Business Days PO # WO # Project # 28003759 SSOW#		Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 6010B - Gallium (McC Campbell Analytical) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 6010C - Indium (TA Cedar Falls) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Total Number of Containers	
Sample Identification MAY-052318 Sample Date: 5/23/18 0900 Sample Type (C=Comp, G=grab): C Preservation Code: W Matrix (W=water, S=solid, O=soil, BT=Tissue, A=Air)		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - H2SO4 S - TSP Dodecahydrate U - Acetone V - NCAAA W - ph 4-5 X - other (specify)	
Sample Instructions/Note: 6010B Gallium sub to McC Campbell Analytical 6010C Indium sub to TA-Cedar Falls		Special Instructions/Note: 6010B Gallium sub to McC Campbell Analytical 6010C Indium sub to TA-Cedar Falls	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)			
Empty Kit Relinquished by: KEN CLEMAN Relinquished by: KEN CLEMAN Relinquished by:			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months			
Special Instructions/QC Requirements: Date/Time: 5-23-18-11PM Received by: KEN CLEMAN Date/Time: 5-23-18 0930 Received by: TA PERM Date/Time:			
Cooler Temperature(s) °C and Other Remarks: 2.30 10#8 CF0-0			



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SHIP FROM:
 Intel Corporation
 1600 Rio Rancho Blvd. S.E., SANDOVAL
 RIO RANCHO, NM 87124
 United States

PACKING LIST
 Page 1 of 1

Intermediate/Consign-To
 Test America
 4955 Yarrow
 Arvada Colorado 80002
 United States

SHIP TO:
 Test America
 4955 Yarrow
 Arvada Colorado 80002
 United States

ATTN:
PHONE: 3037360100
DELIVER TO:
MS:
DATE: 05/23/2018

Reference Number: 1303973188

Expected Return Dt

Originator Kenneth, Urban
Origin Pr: 505 893 0159
MS RR5-465

Return Material NO

Line No	QTY	Unit of Measure	Country of manufacture	Stock Room	PO NO	Vendor/Manufacturer/ INTEL PART NO	VENDOR PART NO	Model NO	Copper/Non Copper	RMA# Category	Repair Cost	Product Detail Description	EBook Serial Number
1	1,000	EA								MISCELLANEOUS		OTHER-MISC/OTHER	
												Water samples for analysis	

Special Instructions

Please ship FDx P1

These items were exported, in their entirety or in part, from United States and will not be used in relation to nuclear, biological or chemical weapons, or missiles capable of delivering these weapons without governmental authorization. They were exported in accordance with the legal regulations of United States and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government and/or local government or as otherwise authorized by U.S. and/or local laws and regulations.

Certified True and Correct

Shipping Units	Packing Material	Total Gross Weight	Total Net Weight	Freight Payment Terms	Freight Account #	Reason for Shipment	Carrier	BOL/HAWB	DATE REQ'd at Dest	Service Level
1	INTEL	18,000 LBS 8,165 KGS	18,000 LBS 8,165 KGS	PREPAID		OTHER-Water samples for analysis	FM	426743474988	05/24/2018	Priority





Cooler/Sample Receipt and Temperature Log Form

Client Information	
Client: <i>TA Denver</i>	
City/State: <i>Arvada CO</i>	Project: <i>Semi Annual WW</i>
Receipt Information	
Date/Time Received: <i>5/24/18 9:25</i>	Received By: <i>HM</i>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <i>SAT</i> <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> TA Courier <input type="checkbox"/> TA Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____	
Condition of Cooler/Containers	
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler ID:</i>
Multiple Coolers?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Cooler # ____ of ____</i>
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler custody seals intact?</i> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Sample custody seals intact?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Which VOA samples are in cooler? ↓</i>
Temperature Record	
Coolant: <input type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input checked="" type="checkbox"/> NONE	
Thermometer ID: <i>H</i>	Correction Factor (°C): <i>0</i>
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature	
Uncorrected Temp (°C):	Corrected Temp (°C):
• Sample Container Temperature	
Container type(s) used: <i>250 mL PLASTIC</i>	
Uncorrected Temp (°C): <i>22.8</i>	Corrected Temp (°C): <i>22.8</i>
Exceptions Noted	
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No	
a) <i>If yes:</i> Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No	
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No	
NOTE: If yes, contact PM before proceeding. If no, proceed with login	
Additional Comments	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-110902-1

Client Project/Site: Monthly Gallium/Indium

For:

Intel Corporation
4100 Sara Road
Mail Stop RR5-491
Rio Rancho, New Mexico 87124

Attn: Megan Rosebrough



Authorized for release by:
6/24/2018 6:45:01 PM

DiLea Bindel, Project Manager I
(303)736-0173
dilea.bindel@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-110902-1

Job ID: 280-110902-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: Intel Corporation

Project: Monthly Gallium/Indium

Report Number: 280-110902-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 6/13/2018 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5° C.

The requested 6010B Gallium was performed by McCampbell Analytical. The analytical report can be found at the back of this report.

TOTAL METALS (ICP)

Sample Jun-IND (280-110902-2) was analyzed for Total Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared and analyzed on 06/20/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-110902-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-110902-1

Client Sample ID: Jun-GAL

Lab Sample ID: 280-110902-1

No Detections.

Client Sample ID: Jun-IND

Lab Sample ID: 280-110902-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indium	0.037	J	0.50	0.026	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver



Method Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-110902-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL CF
6010B	SW846 6010B	SW846	
3010A	Preparation, Total Metals	SW846	TAL CF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

= McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

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Sample Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-110902-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-110902-1	Jun-GAL	Water	06/12/18 09:00	06/13/18 09:00
280-110902-2	Jun-IND	Water	06/12/18 09:00	06/13/18 09:00

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Client Sample Results

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-110902-1

Method: 6010C - Metals (ICP)

Client Sample ID: Jun-IND
Date Collected: 06/12/18 09:00
Date Received: 06/13/18 09:00

Lab Sample ID: 280-110902-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	0.037	J	0.50	0.026	mg/L		06/20/18 07:38	06/20/18 22:05	1

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QC Sample Results

Client: Intel Corporation
 Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-110902-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 310-207011/1-A
 Matrix: Water
 Analysis Batch: 207205

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 207011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50	0.026	mg/L		06/20/18 07:38	06/20/18 22:01	1

Lab Sample ID: LCS 310-207011/2-A
 Matrix: Water
 Analysis Batch: 207205

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 207011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Indium	2.00	1.91		mg/L		95	80 - 120

Lab Sample ID: 280-110902-2 MS
 Matrix: Water
 Analysis Batch: 207205

Client Sample ID: Jun-IND
 Prep Type: Total/NA
 Prep Batch: 207011

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Indium	0.037	J	2.00	1.92		mg/L		94	75 - 125

Lab Sample ID: 280-110902-2 MSD
 Matrix: Water
 Analysis Batch: 207205

Client Sample ID: Jun-IND
 Prep Type: Total/NA
 Prep Batch: 207011

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Indium	0.037	J	2.00	1.90		mg/L		93	75 - 125	1	20

QC Association Summary

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-110902-1

Metals

Prep Batch: 207011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-110902-2	Jun-IND	Total/NA	Water	3010A	
MB 310-207011/1-A	Method Blank	Total/NA	Water	3010A	
LCS 310-207011/2-A	Lab Control Sample	Total/NA	Water	3010A	
280-110902-2 MS	Jun-IND	Total/NA	Water	3010A	
280-110902-2 MSD	Jun-IND	Total/NA	Water	3010A	

Analysis Batch: 207205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-110902-2	Jun-IND	Total/NA	Water	6010C	207011
MB 310-207011/1-A	Method Blank	Total/NA	Water	6010C	207011
LCS 310-207011/2-A	Lab Control Sample	Total/NA	Water	6010C	207011
280-110902-2 MS	Jun-IND	Total/NA	Water	6010C	207011
280-110902-2 MSD	Jun-IND	Total/NA	Water	6010C	207011

Lab Chronicle

Client: Intel Corporation
Project/Site: Monthly Gallium/Indium

TestAmerica Job ID: 280-110902-1

Client Sample ID: Jun-IND

Date Collected: 06/12/18 09:00

Date Received: 06/13/18 09:00

Lab Sample ID: 280-110902-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	207011	06/20/18 07:38	JNR	TAL CF
Total/NA	Analysis	6010C		1			207205	06/20/18 22:05	JIS	TAL CF

Laboratory References:

= McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

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McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1806830

Report Created for: TestAmerica Denver

4955 Yarrow Street
Arvada, CO 80002

Project Contact: DiLea R Bindel

Project P.O.:

Project: 28003759; Semi Annual Waste Water

Project Received: 06/15/2018

Analytical Report reviewed & approved for release on 06/22/2018 by:

Christine Askari
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: TestAmerica Denver
Project: 28003759; Semi Annual Waste Water
WorkOrder: 1806830

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Analytical Report

Client: TestAmerica Denver
Date Received: 6/15/18 9:38
Date Prepared: 6/18/18
Project: 28003759; Semi Annual Waste Water

WorkOrder: 1806830
Extraction Method: SW3050B
Analytical Method: SW6010B
Unit: µg/L

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Jun-GAL (280-110902-1)	1806830-001A	Water	06/12/2018 09:00	ICP-OES 58	160082
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Gallium	ND	3.4	50	1	06/19/2018 10:49
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
Terbium	101	70-130			06/19/2018 10:49
<u>Analyst(s):</u> DB					





Quality Control Report

Client:	TestAmerica Denver	WorkOrder:	1806830
Date Prepared:	6/18/18	BatchID:	160082
Date Analyzed:	6/19/18	Extraction Method:	SW3050B
Instrument:	ICP-OES	Analytical Method:	SW6010B
Matrix:	Water	Unit:	µg/L
Project:	28003759; Semi Annual Waste Water	Sample ID:	MB/LCS-160082 1806830-001AMS/MSD

QC SUMMARY REPORT FOR SW6010B

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Gallium	ND	992	3.4	50	1000	-	99	85-115
Surrogate Recovery								
Terbium	772	792			750	103	106	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Gallium	1080	1020	1000	ND	108	102	70-130	5.46	20
Surrogate Recovery									
Terbium	744	748	750		99	100	70-130	0.525	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Gallium	ND<250	ND	-	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.



1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1806830

ClientCode: TADC

- WaterTrax
 WriteOn
 EDF
 Excel
 EQuIS
 Email
 HardCopy
 ThirdParty
 J-flag
 Detection Summary
 Dry-Weight

Report to:

DiLea R Bindel
 TestAmerica Denver
 4955 Yarrow Street
 Arvada, CO 80002
 303-736-0100 FAX: 303-431-7171

Email: dilea.bindel@testamericainc.com
 cc/3rd Party:
 PO:
 Project: 28003759; Semi Annual Waste Water

Bill to:

Accounts Payable
 TestAmerica
 4101 Shuffel Street NW
 North Canton, OH 44720
 AccountsPayable@testamericainc.com

Requested TAT: 5 days;

Date Received: 06/15/2018

Date Logged: 06/15/2018

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)														
					1	2	3	4	5	6	7	8	9	10	11	12			
1806830-001	Jun-GAL (280-110902-1)	Water	6/12/2018 09:00	<input type="checkbox"/>	A														

Test Legend:

1	METALS_6010_TTLC_W	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Kena Ponce

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.





WORK ORDER SUMMARY

Client Name: TESTAMERICA DENVER

Project: 28003759; Semi Annual Waste Water

Work Order: 1806830

Client Contact: DiLea R Bindel

QC Level: LEVEL 2

Contact's Email: dilea.bindel@testamericainc.com

Comments:

Date Logged: 6/15/2018

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1806830-001A	Jun-GAL (280-110902-1)	Water	SW6010B (Metals) <Gallium>	2	500mL HDPE w/ HNO3	<input type="checkbox"/>	6/12/2018 9:00	5 days	None	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



Sample Receipt Checklist

Client Name: TestAmerica Denver Date and Time Received 6/15/2018 09:38
Project: 28003759; Semi Annual Waste Water Date Logged: 6/15/2018
WorkOrder No: 1806830 Matrix: Received by: Kena Ponce
Carrier: FedEx Logged by:

Chain of Custody (COC) Information

Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Sample IDs noted by Client on COC? Yes [checked] No []
Date and Time of collection noted by Client on COC? Yes [checked] No []
Sampler's name noted on COC? Yes [checked] No []
COC agrees with Quote? Yes [] No [] NA [checked]

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes [] No [] NA [checked]
Shipping container/cooler in good condition? Yes [checked] No []
Samples in proper containers/bottles? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes [checked] No [] NA []
Samples Received on Ice? Yes [checked] No []

(Ice Type: WET ICE)

Sample/Temp Blank temperature Temp: 4.9°C NA []
Water - VOA vials have zero headspace / no bubbles? Yes [] No [] NA [checked]
Sample labels checked for correct preservation? Yes [checked] No []
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes [checked] No [] NA []

UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)? Yes [] No [] NA [checked]
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)? Yes [] No [] NA [checked]

Comments:

Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-110902-1

Login Number: 110902

List Number: 1

Creator: Quint, Jessica A

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-110902-1

Login Number: 110902

List Number: 2

Creator: Meisheid, Heidi N


List Source: TestAmerica Cedar Falls

List Creation: 06/15/18 01:55 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Chain of Custody Record

Client Information		Sampler: <u>LUJEBAN</u>		Lab PM: <u>Bindel, DiLea R.</u>	
Client Contact: <u>Carrie Weitz / Megan Rosebrough</u>		Phone: <u>303-991-7217</u>		E-Mail: <u>dilea.bindel@testamericainc.com</u>	
Company: <u>Intel Corporation</u>		Carrier Tracking No(s):		GOC No: _____	
Address: <u>4100 Sara Road Mail Stop RR5-465</u>		Due Date Requested:		Analysis Requested	
City: <u>Rio Rancho</u>		TAT Requested (days): <u>10 Business Days</u>		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: _____	
State/Zip: <u>NM, 87124</u>		PO #:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)	
Phone: <u>(505) 794-4100 (Tel)</u>		WO #:		Special Instructions/Note: 6010B Gallium sub to McCampbell Analytical 6010C Indium sub to TA-Cedar Falls	
Email: <u>carrie.a.weitz@intel.com</u>		Project #:		Total Number of Containers	
Project Name: <u>Monthly Gallium/Indium</u>		SSOW#:		Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> <u>D</u>	
Site: <u>RIO RANCHO</u>		Sample Date		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> <u>D</u>	
Sample Identification		Sample Time		6010C - Indium (TA Cedar Falls) <input checked="" type="checkbox"/> <u>D</u>	
<u>JUN - GAM</u>	<u>6/24/18 0900</u>	<u>C W</u>	Matrix (W=water, S=solid, O=organic, A=air)	6010B - Gallium (McCampbell Analytical) <input checked="" type="checkbox"/> <u>D</u>	
<u>JUN - IND</u>	<u>6/24/18 0900</u>	<u>C W</u>	Preservation Code:	Barcode:  280-110902 Chain of Custody	
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client <input type="checkbox"/> Archive For _____ Months	
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by: <u>Ken Ureban</u>		Date/Time: <u>6-18-18 1PM</u>		Received by: <u>Luca R.</u>	
Relinquished by:		Date/Time:		Received by:	
Relinquished by:		Date/Time:		Received by:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Copper Temperature(s) °C and Other Remarks: <u>3.5 x 10.0 Ingress JHU</u>	





Cooler/Sample Receipt and Temperature Log Form

Client Information	
Client: <i>TA-Deaver</i>	
City/State: <i>Arvada, Co</i>	Project: <i>Semi-Annual - WW</i>
Receipt Information	
Date/Time Received: <i>6/5/18 930</i>	Received By: <i>TA</i>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> TA Courier <input type="checkbox"/> TA Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____	
Condition of Cooler/Containers	
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler ID:</i>
Multiple Coolers?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Cooler # ___ of ___</i>
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler custody seals intact?</i> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Sample custody seals intact?</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Which VOA samples are in cooler? ↓</i>
Temperature Record	
Coolant: <input type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input checked="" type="checkbox"/> NONE	
Thermometer ID: <i>K</i>	Correction Factor (°C): <i>0.0</i>
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature	
Uncorrected Temp (°C):	Corrected Temp (°C):
• Sample Container Temperature	
Container type(s) used: <i>250 HNO3-110902-B-2 / 110902-A-2</i>	
Uncorrected Temp (°C): <i>21.8 21.8</i>	Corrected Temp (°C): <i>21.8 21.8</i>
Exceptions Noted	
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No	
a) <i>If yes:</i> Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No	
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No	
NOTE: If yes, contact PM before proceeding. If no, proceed with login	
Additional Comments	

Chain of Custody Record

Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc Address: 704 Enterprise Drive, City: Cedar Falls State, Zip: IA, 50613 Phone: 319-277-2401 (Tel) 319-277-2425 (Fax) Email: Project Name: Semi Annual Waste Water Site:		Lab PM: Bindel, D/Lea R E-Mail: dilea.bindel@testamericainc.com Carrier Tracking No(s): State of Origin: New Mexico Accreditations Required (See note):	
Due Date Requested: 6/25/2018 TAT Requested (days): PO #: WO #: Project #: 28003759 SSOW#:		COC No: 280-442358.1 Page: Page 1 of 1 Job #: 280-110902-1 Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2SO4S Q - Na2SO3 R - Na2S2O3 S - HZSO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Analysis Requested		Total Number of containers: 2	
Sample Date: 6/12/18 Sample Time: 09:00 Mountain Matrix (W=water, S=solid, O=waste/oil, B1= tissue, A=Air) Sample Type (C=Comp, G=grab) Preservation Code: Water		Field Filtered Sample (Yes or No) X Perform MS/MSD (Yes or No) X 6010C/3010A (MOD) 6010C Indium X	
Sample Identification - Client ID (Lab ID) Jun-IND (280-110902-2)		Special Instructions/Note:	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: [Signature] Date: 6/14/18 1400
 Relinquished by: [Signature] Date/Time: Company
 Relinquished by: [Signature] Date/Time: Company
 Relinquished by: [Signature] Date/Time: Company
 Custody Seals Intact: Custody Seal No.:
 Δ Yes Δ No
 Cooler Temperature(s) °C and Other Remarks:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

ATTACHMENT D

Semi-Annual Monitoring Analytical Results

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Denver

4955 Yarrow Street

Arvada, CO 80002

Tel: (303)736-0100

TestAmerica Job ID: 280-108537-1

Client Project/Site: Semi Annual Waste Water

For:

Intel Corporation

4100 Sara Road

Mail Stop RR5-491

Rio Rancho, New Mexico 87124

Attn: Megan Rosebrough



Authorized for release by:

4/26/2018 2:24:23 AM

DiLea Bindel, Project Manager I

(303)736-0173

dilea.bindel@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-108537-1

Job ID: 280-108537-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: Intel Corporation

Project: Semi Annual Waste Water

Report Number: 280-108537-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 4/13/2018 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.1° C.

Per client request Indium by method 6010C and Platinum by method 6020A were logged for the following samples: HI-02 COMP#1 (280-108537-2), HI-02 COMP#2 (280-108537-8), HI-02 COMP#3 (280-108537-9) and HI-02 COMP#4 (280-108537-10).

Four separate bottles were received for sample HI-01 and HI-02 with different sample collection dates for each bottle. These samples were only listed once on the chain of custody with a date of 4/12/2018. The client confirmed that each bottle should be analyzed separately. Sample HI-01 for Gallium analysis was split into four samples and logged with ID's of HI-01 COMP#1, HI-01 COMP#2, HI-01 COMP#3 and HI-01 COMP#4. Sample HI-02 for Indium analysis was split into four samples and logged with ID's of HI-02 COMP#1, HI-02 COMP#2, HI-02 COMP#3 and HI-02 COMP#4.

The 8015C Ethylene Glycol vials were received at the Denver laboratory and subcontracted to TestAmerica Savannah for analysis. However, the Savannah laboratory confirmed that the vials were never received. As a result the analysis was canceled and the client was notified.

The requested 6010B Gallium was performed by McCampbell Analytical. The analytical report can be found at the back of this report.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample HI-03 (280-108537-3) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/19/2018 and analyzed on 04/20/2018.

Sample HI-03 (280-108537-3)[40X] required a dilution prior to analysis. As a result, the surrogate recovery could not be calculated for 2,4,6-Tribromophenol (Surr) and Phenol-d5 (Surr) , because the extract was diluted beyond the ability to quantitate a recovery. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS (ICP)

Samples HI-02 COMP#1 (280-108537-2), HI-02 COMP#2 (280-108537-8), HI-02 COMP#3 (280-108537-9) and HI-02 COMP#4 (280-108537-10) were analyzed for Total Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on

Case Narrative

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-108537-1

Job ID: 280-108537-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

04/19/2018 and analyzed on 04/20/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS (ICPMS)

Samples HI-02 COMP#1 (280-108537-2), HI-02 COMP#2 (280-108537-8), HI-02 COMP#3 (280-108537-9) and HI-02 COMP#4 (280-108537-10) were analyzed for total metals (ICPMS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 04/20/2018 and analyzed on 04/23/2018 and 04/24/2018.

The following samples were diluted due to the abundance of non-target analytes: HI-02 COMP#1 (280-108537-2), HI-02 COMP#2 (280-108537-8), HI-02 COMP#3 (280-108537-9), HI-02 COMP#4 (280-108537-10) and (280-108537-E-2-A SD). The laboratory noted the samples were high in salts which can cause instrument and QC failures when run at lesser dilutions: Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



Definitions/Glossary

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-108537-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-108537-1

Client Sample ID: HI-01 COMP#1

Lab Sample ID: 280-108537-1

No Detections.

Client Sample ID: HI-02 COMP#1

Lab Sample ID: 280-108537-2

No Detections.

Client Sample ID: HI-03

Lab Sample ID: 280-108537-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methyl-2-pyrrolidinone	1100		380		ug/L	40		8270C	Total/NA

Client Sample ID: HI-01 COMP#2

Lab Sample ID: 280-108537-5

No Detections.

Client Sample ID: HI-01 COMP#3

Lab Sample ID: 280-108537-6

No Detections.

Client Sample ID: HI-01 COMP#4

Lab Sample ID: 280-108537-7

No Detections.

Client Sample ID: HI-02 COMP#2

Lab Sample ID: 280-108537-8

No Detections.

Client Sample ID: HI-02 COMP#3

Lab Sample ID: 280-108537-9

No Detections.

Client Sample ID: HI-02 COMP#4

Lab Sample ID: 280-108537-10

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Method Summary

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-108537-1

Method	Method Description	Protocol	Laboratory
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
6010C	Metals (ICP)	SW846	TAL CF
6020A	Metals (ICP/MS)	SW846	TAL SL
6010B	SW846 6010B	SW846	
3010A	Preparation, Total Metals	SW846	TAL CF
3010A	Preparation, Total Metals	SW846	TAL SL
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

= McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-108537-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-108537-1	HI-01 COMP#1	Water	04/12/18 09:00	04/13/18 09:15
280-108537-2	HI-02 COMP#1	Water	04/12/18 09:00	04/13/18 09:15
280-108537-3	HI-03	Water	04/12/18 09:00	04/13/18 09:15
280-108537-5	HI-01 COMP#2	Water	04/09/18 09:00	04/13/18 09:15
280-108537-6	HI-01 COMP#3	Water	04/10/18 09:00	04/13/18 09:15
280-108537-7	HI-01 COMP#4	Water	04/11/18 09:00	04/13/18 09:15
280-108537-8	HI-02 COMP#2	Water	04/09/18 09:00	04/13/18 09:15
280-108537-9	HI-02 COMP#3	Water	04/10/18 09:00	04/13/18 09:15
280-108537-10	HI-02 COMP#4	Water	04/11/18 09:00	04/13/18 09:15

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Client Sample Results

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-108537-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: HI-03
Date Collected: 04/12/18 09:00
Date Received: 04/13/18 09:15

Lab Sample ID: 280-108537-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methyl-2-pyrilidinone	1100		380		ug/L		04/19/18 06:54	04/20/18 18:26	40
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	75		38 - 120				04/19/18 06:54	04/20/18 18:26	40
2-Fluorophenol (Surr)	29		10 - 120				04/19/18 06:54	04/20/18 18:26	40
2,4,6-Tribromophenol (Surr)	0	X	28 - 120				04/19/18 06:54	04/20/18 18:26	40
Nitrobenzene-d5 (Surr)	54		32 - 120				04/19/18 06:54	04/20/18 18:26	40
Phenol-d5 (Surr)	0	X	10 - 120				04/19/18 06:54	04/20/18 18:26	40
Terphenyl-d14 (Surr)	61		23 - 127				04/19/18 06:54	04/20/18 18:26	40

Method: 6010C - Metals (ICP)

Client Sample ID: HI-02 COMP#1
Date Collected: 04/12/18 09:00
Date Received: 04/13/18 09:15

Lab Sample ID: 280-108537-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50		mg/L		04/19/18 10:00	04/20/18 19:19	1

Client Sample ID: HI-02 COMP#2
Date Collected: 04/09/18 09:00
Date Received: 04/13/18 09:15

Lab Sample ID: 280-108537-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50		mg/L		04/19/18 10:00	04/20/18 19:21	1

Client Sample ID: HI-02 COMP#3
Date Collected: 04/10/18 09:00
Date Received: 04/13/18 09:15

Lab Sample ID: 280-108537-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50		mg/L		04/19/18 10:00	04/20/18 19:23	1

Client Sample ID: HI-02 COMP#4
Date Collected: 04/11/18 09:00
Date Received: 04/13/18 09:15

Lab Sample ID: 280-108537-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50		mg/L		04/19/18 10:00	04/20/18 19:34	1

Method: 6020A - Metals (ICP/MS)

Client Sample ID: HI-02 COMP#1
Date Collected: 04/12/18 09:00
Date Received: 04/13/18 09:15

Lab Sample ID: 280-108537-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		5.0		ug/L		04/20/18 12:10	04/23/18 23:35	10

Client Sample ID: HI-02 COMP#2
Date Collected: 04/09/18 09:00
Date Received: 04/13/18 09:15

Lab Sample ID: 280-108537-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		5.0		ug/L		04/20/18 12:10	04/23/18 23:48	10

TestAmerica Denver

Client Sample Results

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-108537-1

Method: 6020A - Metals (ICP/MS)

Client Sample ID: HI-02 COMP#3

Date Collected: 04/10/18 09:00

Date Received: 04/13/18 09:15

Lab Sample ID: 280-108537-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		5.0		ug/L		04/20/18 12:10	04/23/18 23:55	10

Client Sample ID: HI-02 COMP#4

Date Collected: 04/11/18 09:00

Date Received: 04/13/18 09:15

Lab Sample ID: 280-108537-10

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		5.0		ug/L		04/20/18 12:10	04/24/18 00:02	10

QC Sample Results

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-108537-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-323094/22-A
Matrix: Water
Analysis Batch: 323326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 323094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methyl-2-pyrrolidinone	ND		10		ug/L		04/19/18 06:54	04/20/18 10:07	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	80		38 - 120				04/19/18 06:54	04/20/18 10:07	1
2-Fluorophenol (Surr)	49		10 - 120				04/19/18 06:54	04/20/18 10:07	1
2,4,6-Tribromophenol (Surr)	80		28 - 120				04/19/18 06:54	04/20/18 10:07	1
Nitrobenzene-d5 (Surr)	74		32 - 120				04/19/18 06:54	04/20/18 10:07	1
Phenol-d5 (Surr)	33		10 - 120				04/19/18 06:54	04/20/18 10:07	1
Terphenyl-d14 (Surr)	95		23 - 127				04/19/18 06:54	04/20/18 10:07	1

Lab Sample ID: LCS 240-323094/23-A
Matrix: Water
Analysis Batch: 323326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323094

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2-Chloronaphthalene	20.0	16.6		ug/L		83	53 - 120
2-Chlorophenol	20.0	13.8		ug/L		69	53 - 120
2,4-Dichlorophenol	20.0	16.7		ug/L		84	55 - 120
2,4-Dimethylphenol	20.0	16.8		ug/L		84	52 - 120
2,4-Dinitrophenol	40.0	29.5		ug/L		74	12 - 120
2,4-Dinitrotoluene	20.0	18.8		ug/L		94	60 - 120
2-Nitrophenol	20.0	17.3		ug/L		87	54 - 120
1,2,4-Trichlorobenzene	20.0	16.6		ug/L		83	49 - 120
2,4,6-Trichlorophenol	20.0	18.2		ug/L		91	54 - 120
2,6-Dinitrotoluene	20.0	16.9		ug/L		84	60 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
2-Fluorobiphenyl (Surr)	90		38 - 120				
2-Fluorophenol (Surr)	45		10 - 120				
2,4,6-Tribromophenol (Surr)	100		28 - 120				
Nitrobenzene-d5 (Surr)	79		32 - 120				
Phenol-d5 (Surr)	35		10 - 120				
Terphenyl-d14 (Surr)	95		23 - 127				

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 310-200428/1-A
Matrix: Water
Analysis Batch: 200854

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 200428

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indium	ND		0.50		mg/L		04/19/18 10:00	04/20/18 19:15	1

TestAmerica Denver

QC Sample Results

Client: Intel Corporation
 Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-108537-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 310-200428/2-A
Matrix: Water
Analysis Batch: 200854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 200428

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Indium	2.00	1.96		mg/L		98	80 - 120

Lab Sample ID: 280-108537-9 MS
Matrix: Water
Analysis Batch: 200854

Client Sample ID: HI-02 COMP#3
Prep Type: Total/NA
Prep Batch: 200428

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Indium	ND		2.00	1.93		mg/L		93	75 - 125

Lab Sample ID: 280-108537-9 MSD
Matrix: Water
Analysis Batch: 200854

Client Sample ID: HI-02 COMP#3
Prep Type: Total/NA
Prep Batch: 200428

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Indium	ND		2.00	1.92		mg/L		93	75 - 125	0	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-362041/1-A
Matrix: Water
Analysis Batch: 362299

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 362041

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Platinum	ND		1.0		ug/L		04/20/18 12:10	04/23/18 22:55	2

Lab Sample ID: LCS 160-362041/2-A
Matrix: Water
Analysis Batch: 362299

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 362041

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Platinum	10.0	9.57		ug/L		96	80 - 120

Lab Sample ID: LCSD 160-362041/3-A
Matrix: Water
Analysis Batch: 362299

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 362041

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Platinum	10.0	9.83		ug/L		98	80 - 120	3	20

QC Association Summary

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-108537-1

GC/MS Semi VOA

Prep Batch: 323094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-108537-3	HI-03	Total/NA	Water	3510C	
MB 240-323094/22-A	Method Blank	Total/NA	Water	3510C	
LCS 240-323094/23-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 323326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-108537-3	HI-03	Total/NA	Water	8270C	323094
MB 240-323094/22-A	Method Blank	Total/NA	Water	8270C	323094
LCS 240-323094/23-A	Lab Control Sample	Total/NA	Water	8270C	323094

Metals

Prep Batch: 200428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-108537-2	HI-02 COMP#1	Total/NA	Water	3010A	
280-108537-8	HI-02 COMP#2	Total/NA	Water	3010A	
280-108537-9	HI-02 COMP#3	Total/NA	Water	3010A	
280-108537-10	HI-02 COMP#4	Total/NA	Water	3010A	
MB 310-200428/1-A	Method Blank	Total/NA	Water	3010A	
LCS 310-200428/2-A	Lab Control Sample	Total/NA	Water	3010A	
280-108537-9 MS	HI-02 COMP#3	Total/NA	Water	3010A	
280-108537-9 MSD	HI-02 COMP#3	Total/NA	Water	3010A	

Analysis Batch: 200854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-108537-2	HI-02 COMP#1	Total/NA	Water	6010C	200428
280-108537-8	HI-02 COMP#2	Total/NA	Water	6010C	200428
280-108537-9	HI-02 COMP#3	Total/NA	Water	6010C	200428
280-108537-10	HI-02 COMP#4	Total/NA	Water	6010C	200428
MB 310-200428/1-A	Method Blank	Total/NA	Water	6010C	200428
LCS 310-200428/2-A	Lab Control Sample	Total/NA	Water	6010C	200428
280-108537-9 MS	HI-02 COMP#3	Total/NA	Water	6010C	200428
280-108537-9 MSD	HI-02 COMP#3	Total/NA	Water	6010C	200428

Prep Batch: 362041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-108537-2	HI-02 COMP#1	Total/NA	Water	3010A	
280-108537-8	HI-02 COMP#2	Total/NA	Water	3010A	
280-108537-9	HI-02 COMP#3	Total/NA	Water	3010A	
280-108537-10	HI-02 COMP#4	Total/NA	Water	3010A	
MB 160-362041/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-362041/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 160-362041/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Analysis Batch: 362299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-108537-2	HI-02 COMP#1	Total/NA	Water	6020A	362041
280-108537-8	HI-02 COMP#2	Total/NA	Water	6020A	362041
280-108537-9	HI-02 COMP#3	Total/NA	Water	6020A	362041
280-108537-10	HI-02 COMP#4	Total/NA	Water	6020A	362041

TestAmerica Denver

QC Association Summary

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-108537-1

Metals (Continued)

Analysis Batch: 362299 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 160-362041/1-A	Method Blank	Total/NA	Water	6020A	362041
LCS 160-362041/2-A	Lab Control Sample	Total/NA	Water	6020A	362041
LCSD 160-362041/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	362041

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Lab Chronicle

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-108537-1

Client Sample ID: HI-02 COMP#1

Date Collected: 04/12/18 09:00

Date Received: 04/13/18 09:15

Lab Sample ID: 280-108537-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	200428	04/19/18 10:00	JNR	TAL CF
Total/NA	Analysis	6010C		1			200854	04/20/18 19:19	SAD	TAL CF
Total/NA	Prep	3010A			50 mL	50 mL	362041	04/20/18 12:10	LAM	TAL SL
Total/NA	Analysis	6020A		10			362299	04/23/18 23:35	LKP	TAL SL

Client Sample ID: HI-03

Date Collected: 04/12/18 09:00

Date Received: 04/13/18 09:15

Lab Sample ID: 280-108537-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1050 mL	2 mL	323094	04/19/18 06:54	SDE	TAL CAN
Total/NA	Analysis	8270C		40			323326	04/20/18 18:26	JMG	TAL CAN

Client Sample ID: HI-02 COMP#2

Date Collected: 04/09/18 09:00

Date Received: 04/13/18 09:15

Lab Sample ID: 280-108537-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	200428	04/19/18 10:00	JNR	TAL CF
Total/NA	Analysis	6010C		1			200854	04/20/18 19:21	SAD	TAL CF
Total/NA	Prep	3010A			50 mL	50 mL	362041	04/20/18 12:10	LAM	TAL SL
Total/NA	Analysis	6020A		10			362299	04/23/18 23:48	LKP	TAL SL

Client Sample ID: HI-02 COMP#3

Date Collected: 04/10/18 09:00

Date Received: 04/13/18 09:15

Lab Sample ID: 280-108537-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	200428	04/19/18 10:00	JNR	TAL CF
Total/NA	Analysis	6010C		1			200854	04/20/18 19:23	SAD	TAL CF
Total/NA	Prep	3010A			50 mL	50 mL	362041	04/20/18 12:10	LAM	TAL SL
Total/NA	Analysis	6020A		10			362299	04/23/18 23:55	LKP	TAL SL

Client Sample ID: HI-02 COMP#4

Date Collected: 04/11/18 09:00

Date Received: 04/13/18 09:15

Lab Sample ID: 280-108537-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	200428	04/19/18 10:00	JNR	TAL CF
Total/NA	Analysis	6010C		1			200854	04/20/18 19:34	SAD	TAL CF
Total/NA	Prep	3010A			50 mL	50 mL	362041	04/20/18 12:10	LAM	TAL SL
Total/NA	Analysis	6020A		10			362299	04/24/18 00:02	LKP	TAL SL

TestAmerica Denver

Lab Chronicle

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-108537-1

Laboratory References:

- = McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565
- TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396
- TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401
- TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

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McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1804A06

Report Created for: TestAmerica Denver

4955 Yarrow Street
Arvada, CO 80002

Project Contact: DiLea R Bindel

Project P.O.:

Project: 28003759; Semi Annual Waste Water

Project Received: 04/18/2018

Analytical Report reviewed & approved for release on 04/24/2018 by:

Jennifer Lagerbom

Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: TestAmerica Denver
Project: 28003759; Semi Annual Waste Water
WorkOrder: 1804A06

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Analytical Report

Client: TestAmerica Denver
Date Received: 4/18/18 9:46
Date Prepared: 4/18/18
Project: 28003759; Semi Annual Waste Water

WorkOrder: 1804A06
Extraction Method: SW3050B
Analytical Method: SW6010B
Unit: µg/L

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HI-01 COMP#1 (280-108537-1)	1804A06-001A	Water	04/12/2018 09:00	ICP-OES 36	156739
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Gallium	ND	3.4	50	1	04/20/2018 12:12
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	109		70-130		04/20/2018 12:12
Analyst(s): DB					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HI-01 COMP#2 (280-108537-5)	1804A06-002A	Water	04/09/2018 09:00	ICP-OES 40	156739
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Gallium	ND	3.4	50	1	04/20/2018 12:18
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	110		70-130		04/20/2018 12:18
Analyst(s): DB					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HI-01 COMP#3 (280-108537-6)	1804A06-003A	Water	04/10/2018 09:00	ICP-OES 43	156739
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Gallium	ND	3.4	50	1	04/20/2018 12:23
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	111		70-130		04/20/2018 12:23
Analyst(s): DB					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
HI-01 COMP#4 (280-108537-7)	1804A06-004A	Water	04/11/2018 09:00	ICP-OES 44	156739
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Gallium	ND	3.4	50	1	04/20/2018 12:25
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	110		70-130		04/20/2018 12:25
Analyst(s): DB					



Quality Control Report

Client:	TestAmerica Denver	WorkOrder:	1804A06
Date Prepared:	4/18/18	BatchID:	156739
Date Analyzed:	4/20/18	Extraction Method:	SW3050B
Instrument:	ICP-OES	Analytical Method:	SW6010B
Matrix:	Water	Unit:	µg/L
Project:	28003759; Semi Annual Waste Water	Sample ID:	MB/LCS-156739 1804A06-001AMS/MSD

QC SUMMARY REPORT FOR SW6010B

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Gallium	ND	1020	3.4	50	1000	-	101	85-115
Surrogate Recovery								
Terbium	845	804			750	113	107	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Gallium	1110	1160	1000	ND	111	115	70-130	3.93	20
Surrogate Recovery									
Terbium	818	842	750		109	112	70-130	2.80	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Gallium	ND<250	ND	-	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1804A06

ClientCode: TADC

- WaterTrax
 WriteOn
 EDF
 Excel
 Email
 HardCopy
 ThirdParty
 J-flag
 Detection Summary
 Dry-Weight

Report to:

DiLea R Bindel
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
303-736-0100 FAX: 303-431-7171

Email: dilea.bindel@testamericainc.com
cc/3rd Party:
PO:
Project: 28003759; Semi Annual Waste Water

Bill to:

Accounts Payable
TestAmerica
4101 Shuffel Street NW
North Canton, OH 44720
AccountsPayable@testamericainc.com

Requested TAT: 5 days;

Date Received: 04/18/2018

Date Logged: 04/18/2018

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1804A06-001	HI-01 COMP#1 (280-108537-1)	Water	4/12/2018 09:00	<input type="checkbox"/>	A												
1804A06-002	HI-01 COMP#2 (280-108537-5)	Water	4/9/2018 09:00	<input type="checkbox"/>	A												
1804A06-003	HI-01 COMP#3 (280-108537-6)	Water	4/10/2018 09:00	<input type="checkbox"/>	A												
1804A06-004	HI-01 COMP#4 (280-108537-7)	Water	4/11/2018 09:00	<input type="checkbox"/>	A												

Test Legend:

1	METALS_6010_TTLC_W	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Kena Ponce

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: TESTAMERICA DENVER

Project: 28003759; Semi Annual Waste Water

Work Order: 1804A06

Client Contact: DiLea R Bindel

QC Level: LEVEL 2

Contact's Email: dilea.bindel@testamericainc.com

Comments:

Date Logged: 4/18/2018

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1804A06-001A	HI-01 COMP#1 (280-108537-1)	Water	SW6010B (Metals) <Gallium>	1	500mL HDPE w/ HNO3	<input type="checkbox"/>	4/12/2018 9:00	5 days	None	<input type="checkbox"/>	
1804A06-002A	HI-01 COMP#2 (280-108537-5)	Water	SW6010B (Metals) <Gallium>	1	500mL HDPE w/ HNO3	<input type="checkbox"/>	4/9/2018 9:00	5 days	None	<input type="checkbox"/>	
1804A06-003A	HI-01 COMP#3 (280-108537-6)	Water	SW6010B (Metals) <Gallium>	1	500mL HDPE w/ HNO3	<input type="checkbox"/>	4/10/2018 9:00	5 days	None	<input type="checkbox"/>	
1804A06-004A	HI-01 COMP#4 (280-108537-7)	Water	SW6010B (Metals) <Gallium>	1	500mL HDPE w/ HNO3	<input type="checkbox"/>	4/11/2018 9:00	5 days	None	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1804 Ade
 Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM: Bindel, DiLea R	Carrier Tracking No(s):	COC No: 280-434208.1		
Client Contact: Shipping/Receiving		Phone:	E-Mail: dilea.bindel@testamericainc.com	State of Origin: New Mexico	Page: Page 1 of 1		
Company: McC Campbell Analytical, Inc.			Accreditations Required (See note):		Job #: 280-108537-1		
Address: 1534 Willow Pass Road,		Due Date Requested: 4/25/2018	Analysis Requested			Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)	
City: Pittsburg		TAT Requested (days):					
State, Zip: CA, 94565		PO #:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Gallium - McC Campbell Analytical, Inc.) 6010B	Gallium	Total Number of containers
Phone:		WO #:					
Email:		Project #: 28003759					
Project Name: Semi Annual Waste Water		SSOW#:					
Site:							
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Special Instructions/Note:	
		Preservation Code:					
HI-01 COMP#1 (280-108537-1)	4/12/18	09:00 Mountain		Water			
HI-01 COMP#2 (280-108537-5)	4/9/18	09:00 Mountain		Water	X		
HI-01 COMP#3 (280-108537-6)	4/10/18	09:00 Mountain		Water	X		
HI-01 COMP#4 (280-108537-7)	4/11/18	09:00 Mountain		Water	X		

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Unconfirmed		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Primary Deliverable Rank: 2			
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>[Signature]</i>	Date/Time: 4/18/18 1500	Company: TACU	Received by: <i>[Signature]</i>
Relinquished by: Fedex	Date/Time: 4/18/18	Company: Fedex	Date/Time: 4/18/18 0946
Relinquished by:	Date/Time:	Company:	Date/Time:
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:	



Sample Receipt Checklist

Client Name: **TestAmerica Denver**
Project: **28003759; Semi Annual Waste Water**

WorkOrder №: **1804A06** Matrix: Water
Carrier: FedEx

Date and Time Received **4/18/2018 09:46**
Date Logged: **4/18/2018**
Received by: Kena Ponce
Logged by: Kena Ponce

Chain of Custody (COC) Information

- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Sample IDs noted by Client on COC? Yes No
- Date and Time of collection noted by Client on COC? Yes No
- Sampler's name noted on COC? Yes No
- COC agrees with Quote? Yes No NA

Sample Receipt Information

- Custody seals intact on shipping container/cooler? Yes No NA
- Shipping container/cooler in good condition? Yes No
- Samples in proper containers/bottles? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

- All samples received within holding time? Yes No NA
- Samples Received on Ice? Yes No
- Sample/Temp Blank temperature Temp: NA
- Water - VOA vials have zero headspace / no bubbles? Yes No NA
- Sample labels checked for correct preservation? Yes No
- pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes No NA
- UCMR Samples:
- pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)? Yes No NA
- Free Chlorine tested and acceptable upon receipt (<0.1mg/L)? Yes No NA

Comments:

Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-108537-1

Login Number: 108537

List Number: 1

Creator: Burtness, Benjamin W

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-108537-1

Login Number: 108537

List Number: 3

Creator: Daclison, Jon R

List Source: TestAmerica Cedar Falls

List Creation: 04/18/18 01:08 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-108537-1

Login Number: 108537

List Number: 4

Creator: Taylor, Kristene N

List Source: TestAmerica St. Louis

List Creation: 04/19/18 04:39 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Chain of Custody Record

Client Information Company: Intel Corporation Address: 4100 Sara Road Mail Stop RR5-491 City: Rio Rancho State, Zip: NM, 87124 Phone: (505) 794-4100 (Tel) Email: Carrie.a.weitz@intel.com Project Name: Semi Annual Waste Water Site: NEW MEXICO		Lab PW: Birtel, Dilela E-Mail: dilela.birtel@testamericainc.com Carrier Tracking No(s): COC No: 280-23927-10503.1 Page: Page 1 of 1 Job #	
Due Date Requested: TAT Requested (days): PO #: W/O #: Project #: SSO#:#:		Analysis Requested 8016C - DAL - Ethylene Glycol (Sub - SAV) 8270C - 1-Methyl-2-pyrrolidone (NMP) (Sub - Canton) 6010B - Gallium (Sub - McCambell Analytical, Inc) 6010B - Gallium (McCambell Analytical)	
Sample Identification H1-01 H1-02 H1-03 H1-04		Field Filtered Sample (Yes or No) Matrix (Water, Sewage, Cholesterol, BTX, Toluene, A-Mut) Sample Type (C=comp, G=grab) Sample Time Sample Date H1/18 9am H1/18 9am H1/18 9am H1/18 9am	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Total Number of Containers Special Instructions/Note: 4-DAY SAMPLES 4-DAY SAMPLES	
Deliverable Requested: I, II, III, IV, Other (specify) Empty Kit Reinquished by:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab Archive For _____ Months	
Reinquished by: Ken Urean Reinquished by: Reinquished by:		Received by: Ken Urean Received by: Received by:	
Custody Seal No.: 237610 Custody Seals Intact: A Yes Δ No		Date/Time: 4-12-18/10:00 AM Date/Time: Date/Time: Date/Time:	
Cooler Temperature(s), °C and Other Remarks: 1.2°C-0.1		Method of Shipment: Company: TA-DEN Company: Company:	



Chain of Custody Record



Client Information (Sub Contract Lab) Client Contact: Bindel, Dillea R Shipping/Receiving: dillea.bindel@testamericainc.com Company: TestAmerica Laboratories, Inc. Address: 13715 Rider Trail North, Earth City, MO, 63045 Phone: 314-298-8566 (Tel) 314-298-8757 (Fax) Email:		Sampler: Lab PM: Bindel, Dillea R Phone: E-Mail: dillea.bindel@testamericainc.com Carrier Tracking No(s): 280-434356.1 State of Origin: New Mexico Page: 1 of 1 Job #: 280-108537-1						
Due Date Requested: 4/25/2018 TAT Requested (days):		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:						
PO #: WO #: Project #: 28003759 SSON#:		Analysis Requested: Total Number of Containers:						
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, B=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	6020A/3010A_2% (MOD) 6020A Platinum	Special Instructions/Note:
HI-02 COMP#1 (280-108537-2)	4/12/18	09:00 Mountain	Water	Water	X	X	1	
HI-02 COMP#2 (280-108537-8)	4/9/18	09:00 Mountain	Water	Water	X	X	1	
HI-02 COMP#3 (280-108537-9)	4/10/18	09:00 Mountain	Water	Water	X	X	1	
HI-02 COMP#4 (280-108537-10)	4/11/18	09:00 Mountain	Water	Water	X	X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify)
 Primary Deliverable Rank: 2
 Empty Kit Relinquished by: Date:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Relinquished by: [Signature]	Date: 4/18/18	Company: [Signature]	Date/Time: 4-19-18 09:10	Company: TestAmerica
Relinquished by:	Date:	Company:	Date/Time:	Company:
Relinquished by:	Date:	Company:	Date/Time:	Company:

Cooler Temperature(s) °C and Other Remarks:

1.4/C1.5

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carmer Tracking No(s):	COC No:					
Client Contact: Shipping/Receiving		Phone:	Bindel, DiLea R	State of Origin: New Mexico	280-434053-1					
Company: TestAmerica Laboratories, Inc.		E-Mail: dilea.bindel@testamericainc.com		Page: Page 1 of 1	Job #: 280-108537-1					
Address: 4101 Shuffel Street NW, City: North Canton State, Zip: OH, 44720 Phone: 330-497-9396(Tel) 330-497-0772(Fax) Email:		Due Date Requested: 4/26/2018 TAT Requested (days):	Accreditations Required (See note):							
Project Name: Semi Annual Waste Water Site:	Project #: 28003759 SSOW#:	PO #:	WO #:	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:						
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=BIOMASS, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270C/3610C_Acid 1-Methyl-2-Pyrrolidone (NMP)	Analysis Requested	Total Number of Containers	Special Instructions/Note:
HI-03 (280-108537-3)	4/12/18	09:00 Mountain	Water	Water	X	X			2	C29
<p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.</p>										
<p>Possible Hazard Identification <input type="checkbox"/> Unconfirmed <input type="checkbox"/> Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:</p>										
Empty Kit Relinquished by: <i>[Signature]</i>		Date: 4/17/18	Company	Method of Shipment:						
Relinquished by: <i>[Signature]</i>		Date/Time: 4/18/18 9:15	Company	Received by: <i>[Signature]</i>						
Relinquished by:		Date/Time:	Company	Received by:						
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:						



TestAmerica Canton Sample Receipt Form/Narrative

Login # : _____

Canton Facility

Client TA Denver Site Name _____ Cooler unpacked by: SL
 Cooler Received on 4/18/18 Opened on 4/18/18
 FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ **Storage Location** _____

TestAmerica Cooler # TA Do Foam Box _____ Client Cooler _____ Box _____ Other _____
 Packing material used: Bubble Wrap Foam Plastic Bag None _____ Other _____
 COOLANT: Wet Ice Blue Ice _____ Dry Ice _____ Water _____ None _____

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN# IR-8 (CF +0.1 °C) Observed Cooler Temp. 1.4 °C Corrected Cooler Temp. 1.5 °C
 IR GUN #36 (CF +0.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN # 627 (CF -1.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
 -Were tamper/custody seals intact and uncompromised? Yes No NA
 3. Shippers' packing slip attached to the cooler(s)? Yes No
 4. Did custody papers accompany the sample(s)? Yes No
 5. Were the custody papers relinquished & signed in the appropriate place? Yes No
 6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
 7. Did all bottles arrive in good condition (Unbroken)? Yes No
 8. Could all bottle labels be reconciled with the COC? Yes No
 9. Were correct bottle(s) used for the test(s) indicated? Yes No
 10. Sufficient quantity received to perform indicated analyses? Yes No
 11. Are these work share samples? Yes No
 If yes, Questions 12-16 have been checked at the originating laboratory.
 12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC732776
 13. Were VOAs on the COC? Yes No
 14. Were air bubbles >6 mm in any VOA vials? Yes Larger than this. Yes No NA
 15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
 16. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Tests that are not checked for pH by Receiving:
 VOAs
 Oil and Grease
 TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: _____

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____



Cooler/Sample Receipt and Temperature Log Form

Client Information	
Client: TA Denver	
City/State: Arvada CO	Project: Semi Annual WW
Receipt Information	
Date/Time Received: 04-18-18 0930	Received By: DA
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> TA Courier <input type="checkbox"/> TA Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____	
Condition of Cooler/Containers	
Sample(s) received in Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____
Multiple Coolers? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler # ____ of ____
Cooler Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓
Temperature Record	
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> NONE
Thermometer ID: K	Correction Factor (°C): 0.0
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature	
Uncorrected Temp (°C):	Corrected Temp (°C):
• Sample Container Temperature	
Container type(s) used: PL 250 HNO3 HI-02	
Uncorrected Temp (°C): 12.3	Corrected Temp (°C): 12.3
Exceptions Noted	
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No	
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No	
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No	
NOTE: If yes, contact PM before proceeding. If no, proceed with login	
Additional Comments	
Thermal preservation not required	

Chain of Custody Record

Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc Address: 704 Enterprise Drive, City: Cedar Falls State, Zip: IA, 50613 Phone: 319-277-2401(Tel) 319-277-2425(Fax) Email: Project Name: Semi Annual Waste Water Site:		Lab PM: Bindel, DiLea R E-Mail: dilea.bindel@testamericainc.com Accreditations Required (See note):		Carrier Tracking No(s): State of Origin: New Mexico Page: Page 1 of 1 Job #: 280-108537-1 Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Due Date Requested: 4/25/2018 TAT Requested (days): PO #: WO #: Project #: 28003759 SSOW#:		Analysis Requested			
Sample Identification - Client ID (Lab ID)		Total Number of containers			
HI-02 COMP#1 (280-108537-2)	Sample Date: 4/12/18 Sample Time: 09:00 Mountain	Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=wastoli, BT=Tissue, A=Air) Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Special Instructions/Note:
HI-02 COMP#2 (280-108537-8)	Sample Date: 4/9/18 Sample Time: 09:00 Mountain	Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=wastoli, BT=Tissue, A=Air) Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Special Instructions/Note:
HI-02 COMP#3 (280-108537-9)	Sample Date: 4/10/18 Sample Time: 09:00 Mountain	Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=wastoli, BT=Tissue, A=Air) Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Special Instructions/Note:
HI-02 COMP#4 (280-108537-10)	Sample Date: 4/11/18 Sample Time: 09:00 Mountain	Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=wastoli, BT=Tissue, A=Air) Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Special Instructions/Note:
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/ies/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.					
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)					
Special Instructions/QC Requirements:					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Primary Deliverable Rank: 2					
Empty Kit Relinquished by:					
Relinquished by: <i>[Signature]</i> Date/Time: 4/17/18 15:00 Company: <i>[Signature]</i> Company		Received by: <i>[Signature]</i> Date/Time: 04-18-18 0930 Company: <i>[Signature]</i> Company			
Relinquished by: Date/Time: Company:		Received by: Date/Time: Company:			
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No					
Cooler Temperature(s) °C and Other Remarks:					



Job 280-108537-1 - Request to split volume and forward to STL for Platinum

Bindel, DiLea

Tue 4/17/2018 5:18 PM

To: Cedar Falls - Sample Receiving <CedarFalls-SampleReceiving@testamericainc.com>;

Cc: St. Louis - SampleReceiving <St.Louis-SampleReceiving@testamericainc.com>; Collins, Janice <Janice.Collins@testamericainc.com>;

Hello Cedar Falls!

I had a late request from my client to add 6020A Platinum to four water samples you will receive tomorrow (4/18) for 6010C Indium. Would it be possible for you to split volume and ship to St. Louis for Platinum? We would have done it here in Denver, but the samples were shipped before we had the chance.

I have already added an additional 250mL with HNO3 to the login. Would it be possible for CF to generate an ICOC and send it with the platinum samples? If not, please let me know and we can generate one from our end.

Thank you,

DILEA BINDEL
Project Manager
TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
4955 Yarrow Street
Arvada, CO 80002
Tel 303.736.0173 | Fax 303.432.8925
dilea.bindel@testamericainc.com

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Denver

4955 Yarrow Street

Arvada, CO 80002

Tel: (303)736-0100

TestAmerica Job ID: 280-110159-1

Client Project/Site: Semi Annual Waste Water

For:

Intel Corporation

4100 Sara Road

Mail Stop RR5-491

Rio Rancho, New Mexico 87124

Attn: Megan Rosebrough



Authorized for release by:

5/31/2018 2:40:34 PM

DiLea Bindel, Project Manager I

(303)736-0173

dilea.bindel@testamericainc.com

LINKS

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results through

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-110159-1

Job ID: 280-110159-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: Intel Corporation

Project: Semi Annual Waste Water

Report Number: 280-110159-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The sample was received on 5/24/2018 9:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3° C.

NONHALOGENATED ORGANIC USING GC/FID (DIRECT AQUEOUS INJECTION)

Sample HI-052318 (280-110159-1) was analyzed for Nonhalogenated Organic using GC/FID (Direct Aqueous Injection) in accordance with SW846 8015C. The samples were analyzed on 05/30/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-110159-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-110159-1

Client Sample ID: HI-052318

Lab Sample ID: 280-110159-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylene glycol	5.3		5.0	1.2	mg/L	1		8015C	Total/NA

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This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Method Summary

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-110159-1

Method	Method Description	Protocol	Laboratory
8015C	Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



Sample Summary

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-110159-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-110159-1	HI-052318	Water	05/23/18 09:00	05/24/18 09:30

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Client Sample Results

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-110159-1

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Client Sample ID: HI-052318
Date Collected: 05/23/18 09:00
Date Received: 05/24/18 09:30

Lab Sample ID: 280-110159-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	5.3		5.0	1.2	mg/L			05/30/18 17:12	1

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QC Sample Results

Client: Intel Corporation
 Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-110159-1

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Lab Sample ID: MB 680-525828/9
Matrix: Water
Analysis Batch: 525828

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND		5.0	1.2	mg/L			05/30/18 16:48	1

Lab Sample ID: LCS 680-525828/6
Matrix: Water
Analysis Batch: 525828

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene glycol	40.0	40.0		mg/L		100	61 - 148

Lab Sample ID: LCSD 680-525828/7
Matrix: Water
Analysis Batch: 525828

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene glycol	40.0	38.5		mg/L		96	61 - 148	4	50

Lab Sample ID: 280-110159-1 MS
Matrix: Water
Analysis Batch: 525828

Client Sample ID: HI-052318
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene glycol	5.3		40.0	39.2		mg/L		85	61 - 148

Lab Sample ID: 280-110159-1 MSD
Matrix: Water
Analysis Batch: 525828

Client Sample ID: HI-052318
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene glycol	5.3		40.0	40.3		mg/L		87	61 - 148	3	50

QC Association Summary

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-110159-1

GC VOA

Analysis Batch: 525828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-110159-1	HI-052318	Total/NA	Water	8015C	
MB 680-525828/9	Method Blank	Total/NA	Water	8015C	
LCS 680-525828/6	Lab Control Sample	Total/NA	Water	8015C	
LCSD 680-525828/7	Lab Control Sample Dup	Total/NA	Water	8015C	
280-110159-1 MS	HI-052318	Total/NA	Water	8015C	
280-110159-1 MSD	HI-052318	Total/NA	Water	8015C	

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Lab Chronicle

Client: Intel Corporation
Project/Site: Semi Annual Waste Water

TestAmerica Job ID: 280-110159-1

Client Sample ID: HI-052318

Lab Sample ID: 280-110159-1

Date Collected: 05/23/18 09:00

Matrix: Water

Date Received: 05/24/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1			525828	05/30/18 17:12	LBH	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-110159-1

Login Number: 110159

List Source: TestAmerica Denver

List Number: 1

Creator: Rhoades, Joseph P

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Intel Corporation

Job Number: 280-110159-1

Login Number: 110159

List Number: 2

Creator: Latta, Reginald L

List Source: TestAmerica Savannah

List Creation: 05/26/18 10:55 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Chain of Custody Record

Client Information Client Contact: Jeff Rudnik Company: Intel Corporation Address: 4100 Sara Road Mail Stop RR5-491 City: Rio Rancho State, Zip: NM, 87124 Phone: 505-353-6943 (Tel) Email: jeffrey.rudnik@intel.com Project Name: Semi Annual Waste Water Site:		Lab PM: Bindel, Dillea E-Mail: dillea.bindel@testamericainc.com Carrier Tracking No(s): COC No: 280-23927-10503.1 Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: SSO#: 28003759		Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O/S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)	
Sample Identification HI-052318 Sample Date: 5/23/18 0900 Sample Time: C W Matrix (W=water, S=solid, O=on-site, BT=issue, AP=AI) Sample Type (C=Comp, G=grab) Preservation Code:		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> N Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> X 8015C, DAI - Ethylene Glycol (Sub-SAV)	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:	
Empty Kit Relinquished by: Relinquished by: KEU URBAN Relinquished by: Relinquished by:		Time: Date: 5-23-18 9AM Date/Time: 5/23/18 0930 Date/Time:	
Custody Seals Intact: Δ Yes Δ NO		Cooler Temperature(s) °C and Other Remarks: 23° 10.58	



ATTACHMENT E

Site Outfall Flow Meter Calibration Records

Carnie, Tracy, Chris

3/1/2018

80	Technical PM Procedure (Perform in Sequence)
1	Set Up/Staging
1.1	Verify that all parts from Section 20 are on hand.
1.2	Don PPE per Section 10G.
2	Shutdown
2.1	N/A
3	PM Steps
3.1	Set the calibration target to exactly 1 foot.
3.2	On the ultrasonic unit, select Menu (softkey B), Configure Options (option 2), Adjust (option 3), Level, 310 Level.
3.3	Carefully place the target directly below the flow meter's ultrasonic transducer. Make sure the foot of the pole assembly is resting on the bottom of the flume, the pole is held vertically, and the calibration target is level.
3.4	After the flow meter has stabilized on the flow meter's display, make note of the as-found level: Ultrasonic Calibration (Primary Unit) As-Found Level: <u>1.031</u> ft. As-Left Level: <u>1.000</u> ft.
3.5	Enter 1.000 ft in the level field and select the Adjust button.
3.6	Go back to the Home Screen, remove the target, and wait until the flow starts registering.
3.7	Connect the Hart Communicator to the radar unit.
3.8	Carefully place the target directly below the flow meter's radar transducer. Make sure the foot of the pole assembly is resting on the bottom of the flume, the pole is held vertically, and the calibration target is level.
3.9	After the flow meter has stabilized on the flow meter's display, make note of the as-found level: Radar Calibration (Backup Unit) As-Found Level: 1.035 ft. <u>1.069</u> As-Left Level: <u>1.002</u> ft.
3.10	Using the Hart Communicator, adjust the Tank Height Parameter in 0.1-in increments until the level is as close as possible to 1.000 foot. When completed, make note of the as-left level above.
4	Startup
4.1	N/A

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F11x NM Site Outfall Flow Meter Calibration

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